

FCC PART 15.247

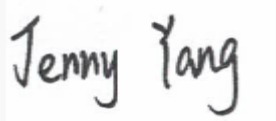
TEST REPORT

For

Shanghai Xiangcheng Communication Technology Co.,Ltd

6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China

FCC ID: 2A2UU-K1112

Report Type: Original Report	Product Name: A6k Smart Payment Terminal
Report Number: <u>RKSA250728004-00B</u>	
Report Date: <u>2025-10-31</u>	
Reviewed By: <u>Jenny Yang</u>	
Approved By: <u>Kyle Xu</u>	
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

TABLE OF CONTENTS

REPORT REVISION HISTORY.....	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	5
OBJECTIVE	5
TEST METHODOLOGY	6
MEASUREMENT UNCERTAINTY	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION.....	7
DESCRIPTION OF TEST CONFIGURATION	7
EQUIPMENT MODIFICATIONS	7
EUT EXERCISE SOFTWARE	8
SUPPORT EQUIPMENT LIST AND DETAILS	11
EXTERNAL I/O CABLE.....	11
BLOCK DIAGRAM OF TEST SETUP	11
SUMMARY OF TEST RESULTS	13
TEST EQUIPMENT LIST	14
FCC §1.1307(b) & §2.1093 - RF EXPOSURE.....	16
APPLICABLE STANDARD	16
FCC §15.203 - ANTENNA REQUIREMENT.....	17
APPLICABLE STANDARD	17
ANTENNA CONNECTOR CONSTRUCTION	17
FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS.....	18
APPLICABLE STANDARD	18
TEST SYSTEM SETUP.....	18
EMI TEST RECEIVER SETUP.....	18
TEST PROCEDURE	19
TEST RESULTS SUMMARY	19
TEST DATA: SEE APPENDIX	19
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	20
APPLICABLE STANDARD	20
TEST SYSTEM SETUP.....	20
EMI TEST RECEIVER SETUP.....	21
TEST PROCEDURE	21
TEST RESULTS SUMMARY	22
TEST DATA: SEE APPENDIX	22
FCC §15.247(A) (2) - 6 DB EMISSION BANDWIDTH.....	23
APPLICABLE STANDARD	23
TEST PROCEDURE	23
TEST DATA: SEE APPENDIX	23
FCC §15.247(B) (3) - MAXIMUM CONDUCTED OUTPUT POWER	24
APPLICABLE STANDARD	24
TEST PROCEDURE	24
TEST DATA: SEE APPENDIX	24
FCC §15.247(D) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	25
APPLICABLE STANDARD	25

TEST PROCEDURE	25
TEST DATA: SEE APPENDIX	25
FCC §15.247(E) - POWER SPECTRAL DENSITY.....	26
APPLICABLE STANDARD	26
TEST PROCEDURE	26
TEST DATA: SEE APPENDIX	26
APPENDIX - TEST DATA.....	27
AC LINE CONDUCTED EMISSIONS	27
SPURIOUS EMISSIONS	34
6 dB EMISSION BANDWIDTH	92
MAXIMUM CONDUCTED OUTPUT POWER.....	98
100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE.....	101
CONDUCTED SPURIOUS EMISSION.....	104
POWER SPECTRAL DENSITY	108
EUT PHOTOGRAPHS	113
TEST SETUP PHOTOGRAPHS.....	114

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA250728004-00B	R1V1	2025-10-31	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Shanghai Xiangcheng Communication Technology Co.,Ltd
Tested Model	K1112
Product Name	A6k Smart Payment Terminal
Power Supply	DC 5V from USB port or DC 3.6V from battery
RF Function:	2.4G Wi-Fi; BLE
Operating Band/Frequency:	2.4G Wi-Fi: 2412~2462 MHz(802.11b/g/n20), 2422~2452 MHz(802.11n40) BLE(1 Mbps/2 Mbps): 2402-2480 MHz
Maximum Peak Output Power:	2.4G Wi-Fi: 802.11b: 20.35 dBm 802.11g: 23.66 dBm 802.11n20: 23.25 dBm 802.11n40: 20.34 dBm BLE(1 Mbps): -1.46 dBm BLE(2 Mbps): -1.42 dBm
Channel Number:	2.4G Wi-Fi: 11(802.11b/g/n20), 7(802.11n40) BLE(1 Mbps/2 Mbps): 40
Channel Separation:	2.4G Wi-Fi: 5 MHz BLE: 2 MHz
Modulation Type:	2.4G Wi-Fi: DSSS, OFDM BLE: GFSK
★Maximum Antenna Gain:	2.4G Wi-Fi & BLE: 3.04 dBi

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RKSA250728004-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-07-28.)

Objective

This report is prepared for *Shanghai Xiangcheng Communication Technology Co.,Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions' rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and FCC 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel List for BLE mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	/
13	2428	27	2456	/	/

EUT was tested with channel 0, 19 and 39.

Channel List for Wi-Fi Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g and 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.

For 802.11n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test software: engineering mode

Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	★Power Level
802.11b	1 Mbps	19.5
802.11g	6 Mbps	16
802.11n-HT20	MCS0	15
802.11n-HT40	MCS0	11
BLE(1Mbps)	1Mbps	Default
BLE(2Mbps)	2Mbps	Default

Note: The power level was declared by the applicant.

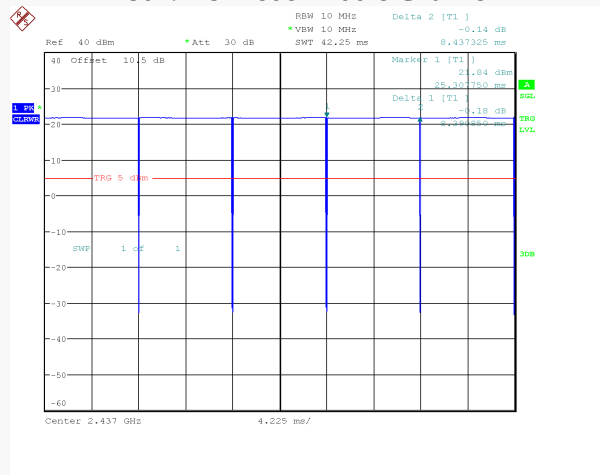
Environmental Conditions & Test Information

Test Date:	2025-08-23 ~ 2025-08-25
Temperature:	25.3℃ ~ 27.6℃
Relative Humidity:	47% ~ 54 %
ATM Pressure:	100.8 kPa ~ 101.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

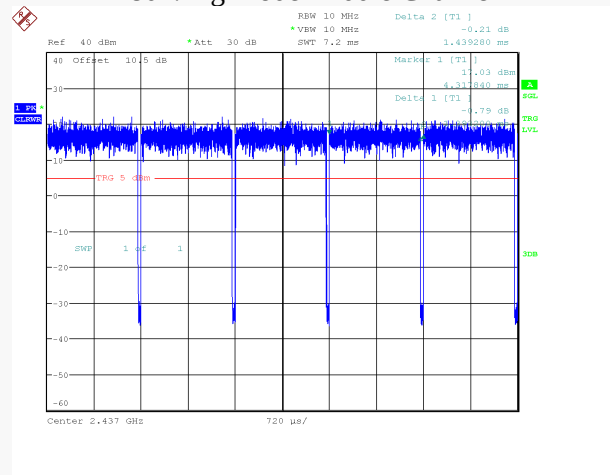
Mode	Duty Cycle (%)	Ton(ms)	Ton+off(ms)	10log(1/x) (dB)
802.11b	99.45	8.391	8.437	/
802.11g	96.80	1.393	1.439	0.14
802.11n-HT20	96.58	1.299	1.345	0.15
802.11n-HT40	93.06	0.644	0.692	0.31
BLE(1Mbps)	84.25	2.107	2.501	0.74
BLE(2Mbps)	56.54	1.059	1.873	2.48

Note:

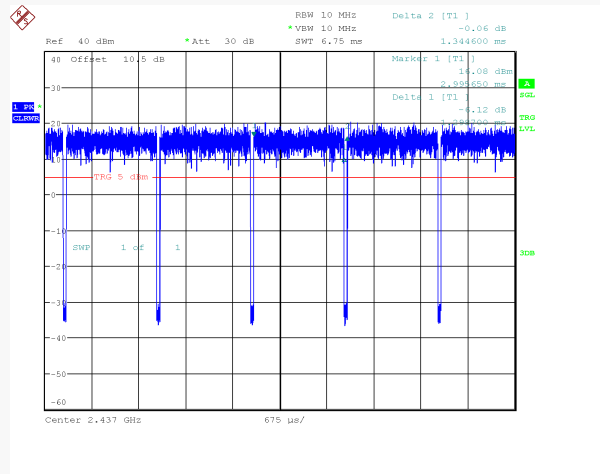
1. “x” means the Duty Cycle.
2. Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Duty Cycle:**802.11b Mode Middle Channel**

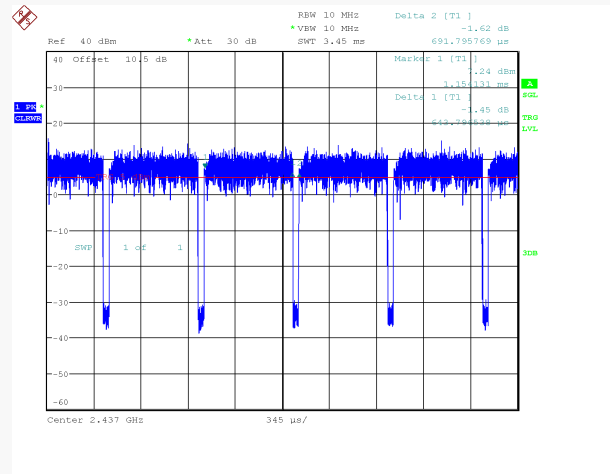
ProjectNo.:RKSA250728004 Tester:Neil Zhou
Date: 25.AUG.2025 17:05:04

802.11g Mode Middle Channel

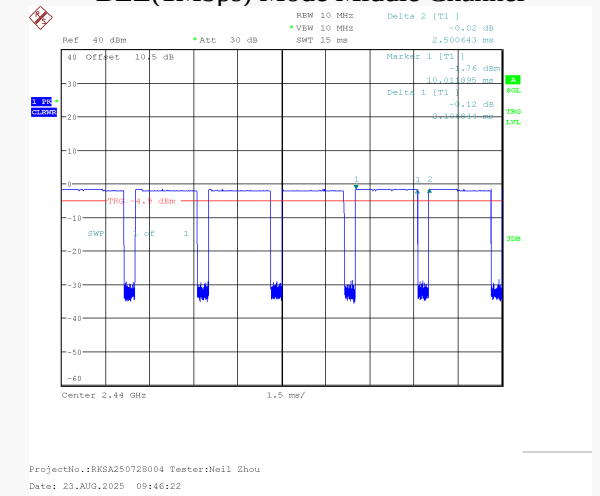
ProjectNo.:RKSA250728004 Tester:Neil Zhou
Date: 25.AUG.2025 17:09:32

802.11n-HT20 Mode Middle Channel

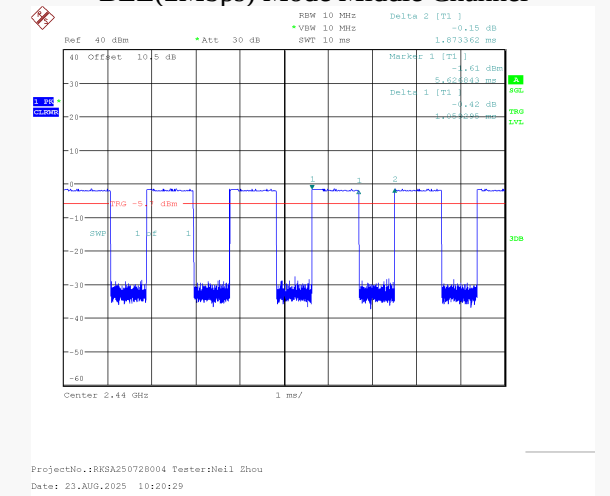
ProjectNo.:RKSA250728004 Tester:Neil Zhou
Date: 25.AUG.2025 17:12:15

802.11n-HT40 Mode Middle Channel

ProjectNo.:RKSA250728004 Tester:Neil Zhou
Date: 25.AUG.2025 17:19:24

BLE(1Mbps) Mode Middle Channel

ProjectNo.:RKSA250728004 Tester:Neil Zhou
Date: 23.AUG.2025 09:46:22

BLE(2Mbps) Mode Middle Channel

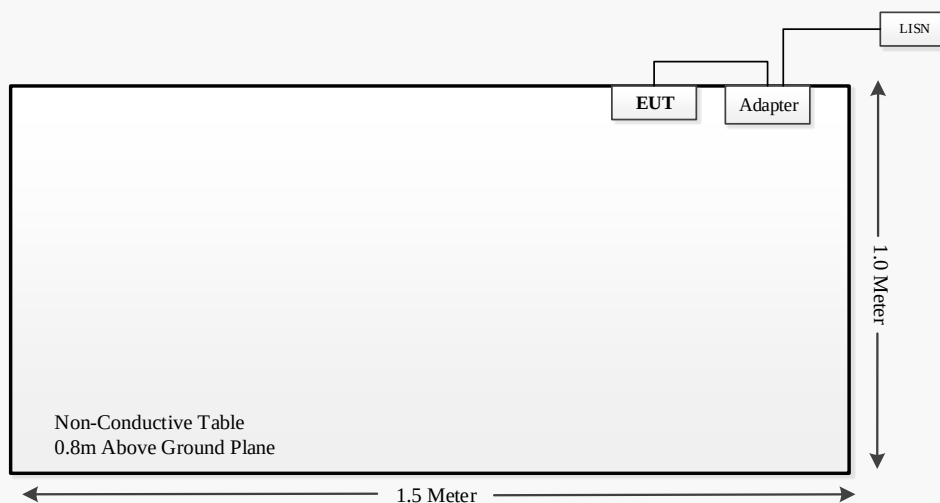
ProjectNo.:RKSA250728004 Tester:Neil Zhou
Date: 23.AUG.2025 10:20:29

Support Equipment List and Details

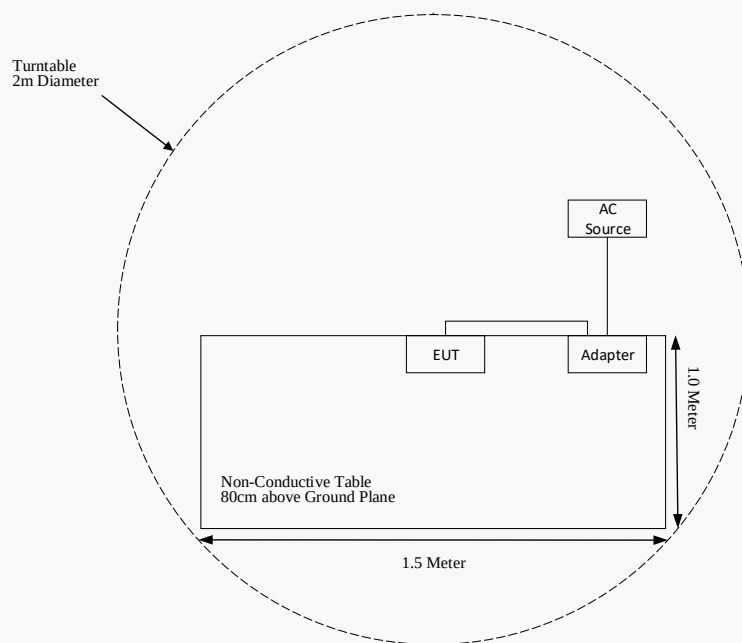
Manufacturer	Description	Model	Serial Number
Chongqing Lianmao Electronics Co.,Ltd	Adapter	LM-603U-050200U02UL	/

External I/O Cable

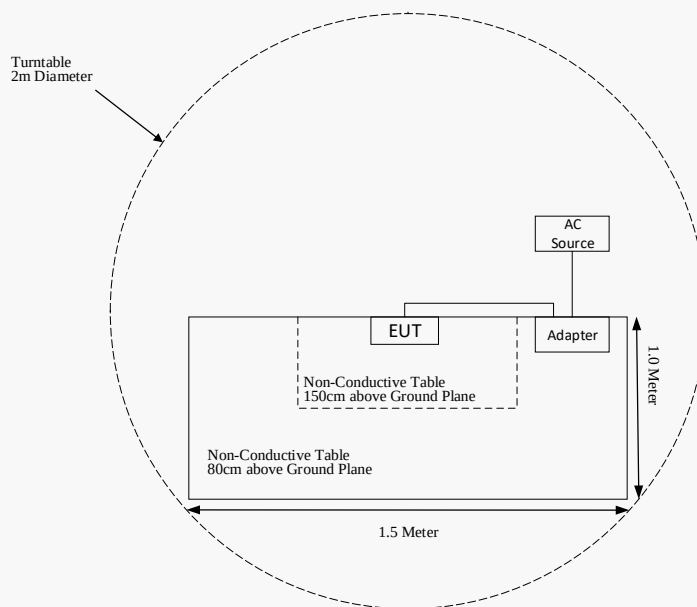
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Adapter	AC Source /LISN

Block Diagram of Test Setup**For Conducted Emissions:**

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1)& §2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-12-02	2025-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
SELECTOR	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2025-04-08	2026-04-07
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Anritsu	Power Sensor	MA24418A	12621	2025-04-09	2026-04-08

Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2025-04-09	2026-04-08
Rohde & Schwarz	LISN	ENV216	101115	2025-04-08	2026-04-07
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2025-04-08	2026-04-07

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}]$
 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

Mode	Frequency Range (MHz)	★Max Tune-up Conducted Power		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
BLE	2402-2480	-1.00	0.79	5.0	0.2	3.0	Yes

Note:

1. For the above tune up power were declared by the manufacturer.
2. For 2.4G Wi-Fi, please reference report RKSA250728004-20B.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT have an FPC antenna which permanently attached to the unit. fulfill the requirement of this section. Please refer to the EUT photos.

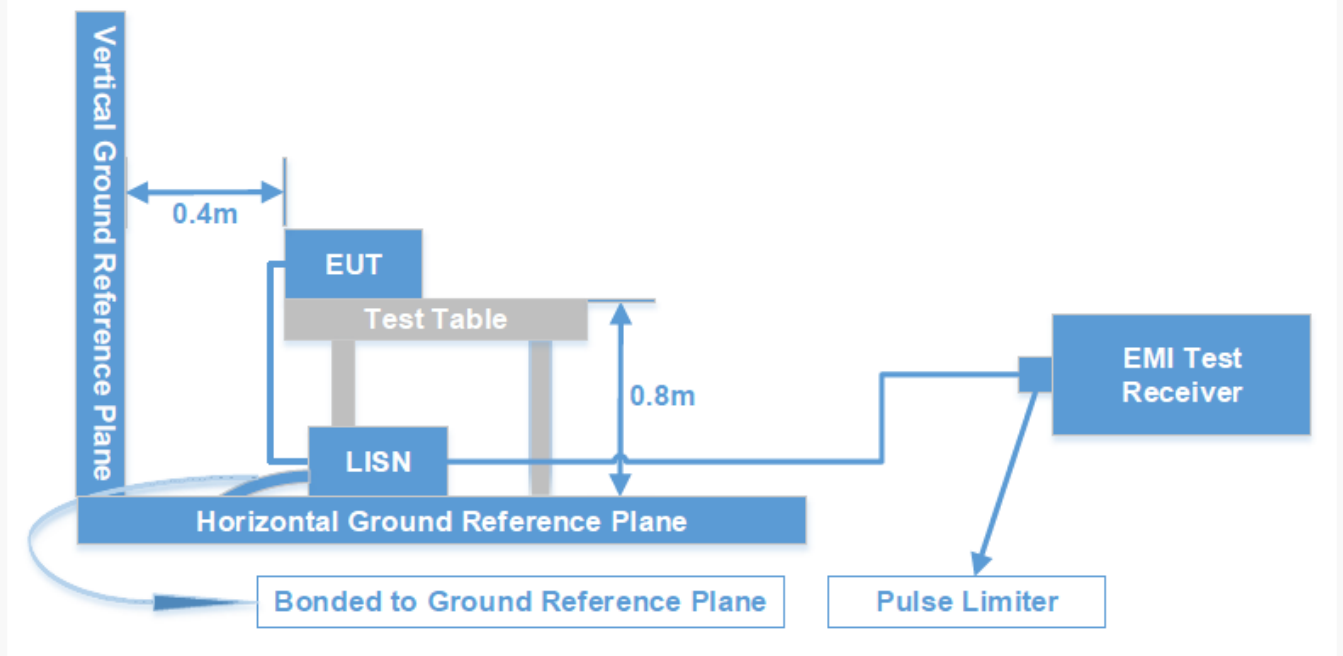
Result: Compliant.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2020. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW
150 kHz - 30 MHz	9 kHz	30 kHz

Test Procedure

ANSI C63.10-2020 clause 6.2

During the conducted emission test, the EUT was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dBμV) = Read level (dBμV) + Factor (dB)

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

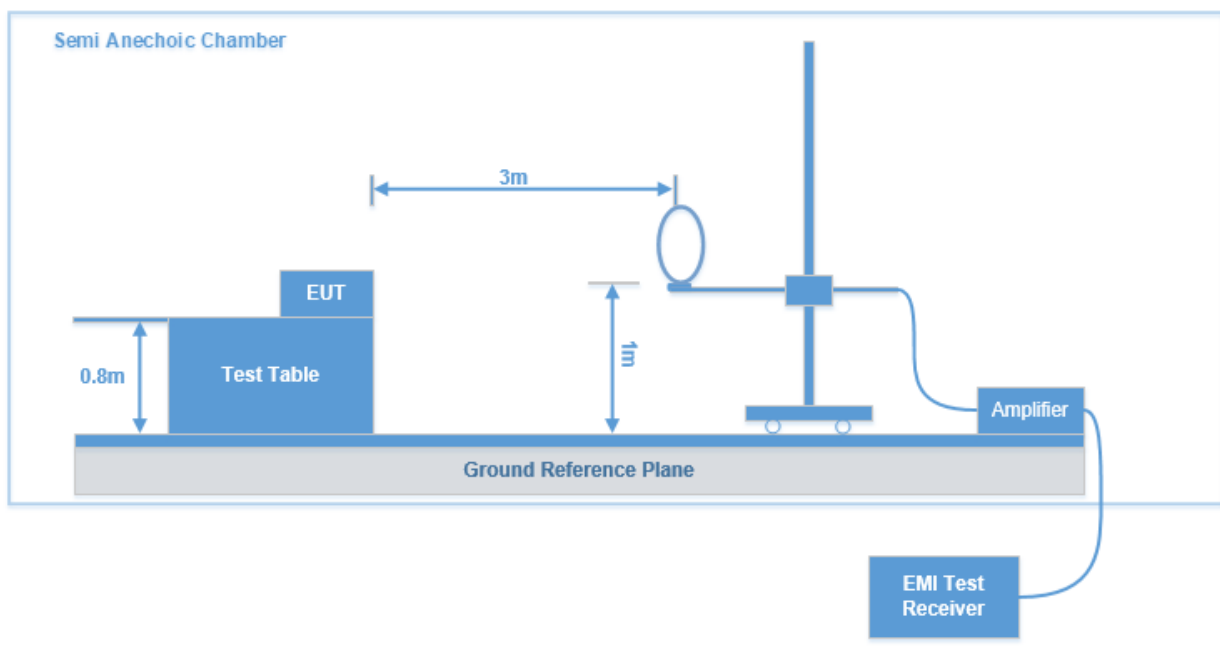
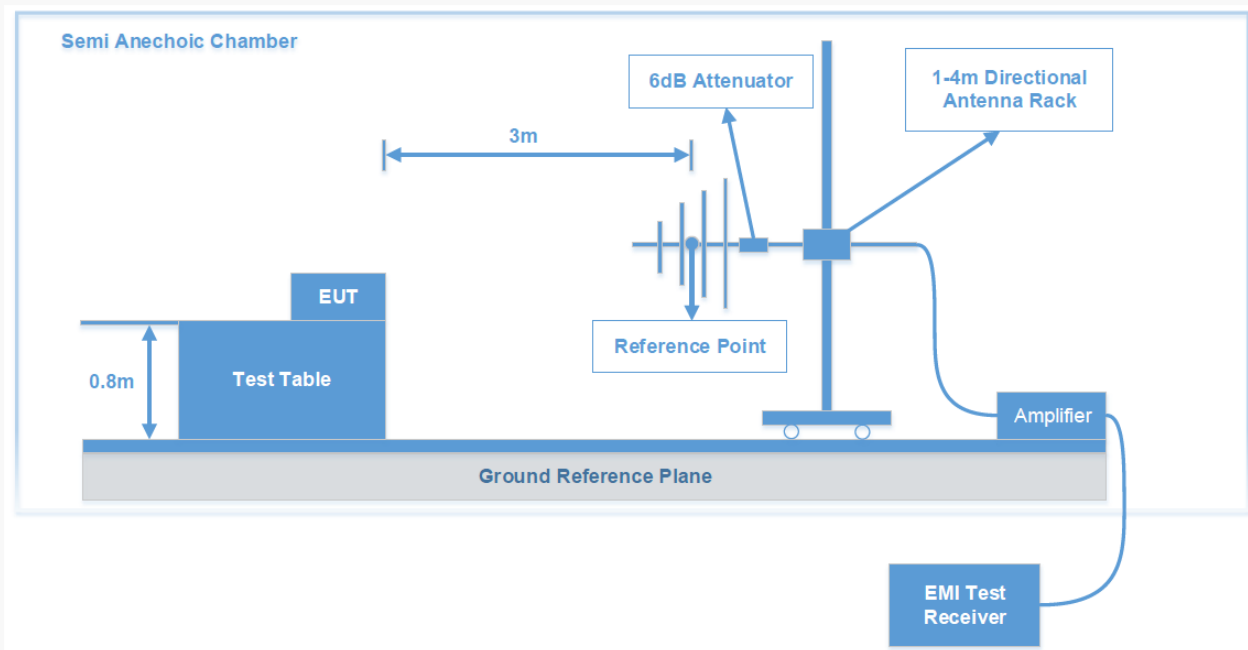
Test Results Summary

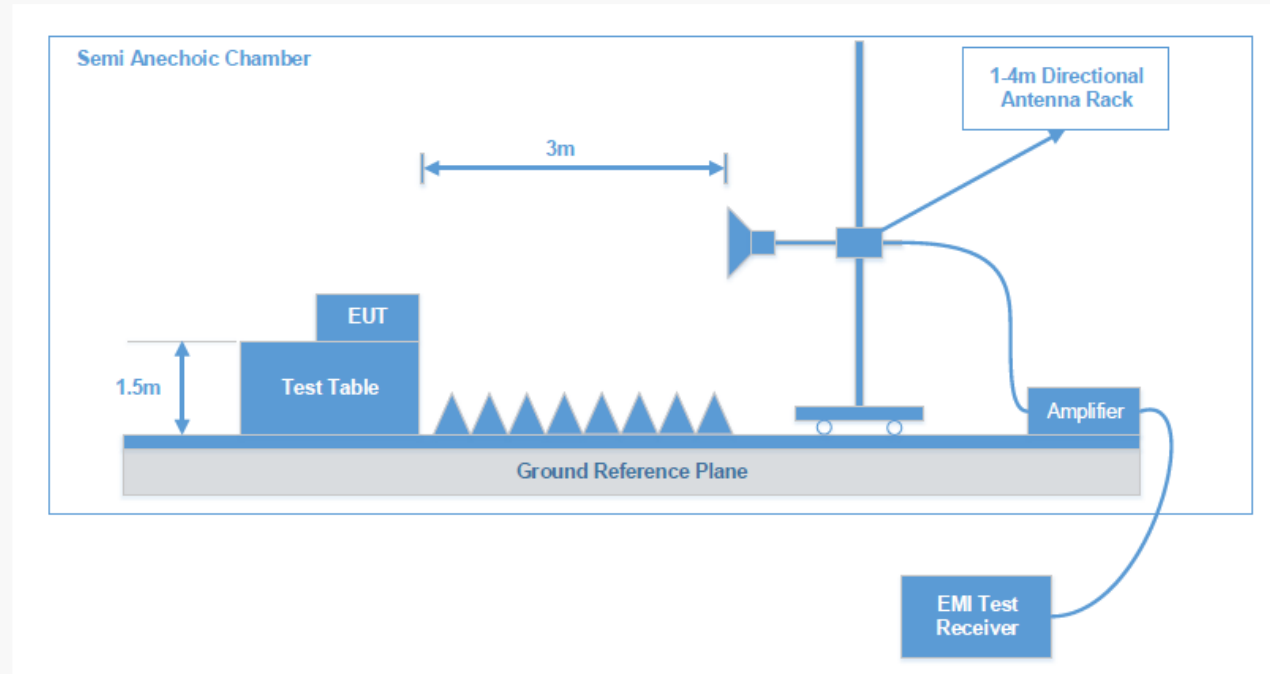
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

Test System Setup**9 kHz-30 MHz:****30 MHz-1 GHz:**

Above 1 GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver Setup

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement	Detector
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	Peak/QP/Average	Peak/QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP/Average	Peak/QP/Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak	Peak
	/	/	120 kHz	QP	QP
Above 1GHz	1MHz	3 MHz	/	Peak	Peak
	1MHz	3 MHz	/	Average	Average

Test Procedure

According to ANSI C63.10-2020 clause 6.4, 6.5 and 6.6.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/m) which shown in the data table are all Corrected Amplitude.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, and Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC §15.247(A) (2) - 6 DB EMISSION BANDWIDTH

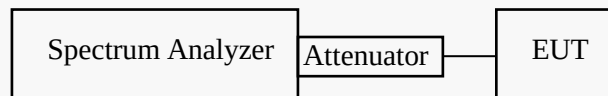
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to ANSI C63.10-2020 sub-clause 11.8.1

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “– 6 dB down amplitude” . If a marker is below this “– 6 dB down amplitude” value, then it shall be as close as possible to this value.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(B) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliant with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

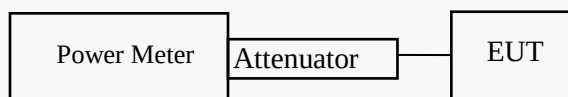
For 2.4G Wi-Fi:

According to ANSI C63.10-2020 sub-clause 11.9.1.2

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

11.9.2.3.2 Method AVGPM-G

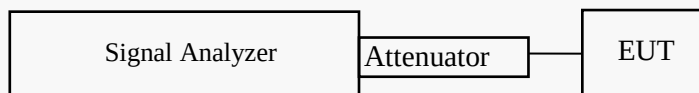
Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.



For BLE:

According to ANSI C63.10-2020 sub-clause 11.9.1.1

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq [3 \times \text{RBW}]$.
- c) Set span $\geq [3 \times \text{RBW}]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(D) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

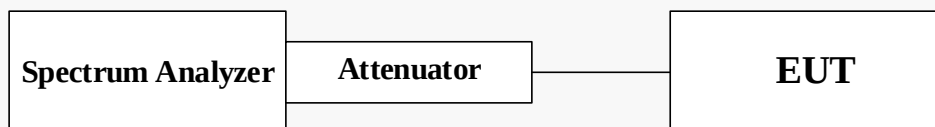
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates Compliant with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2020 sub-clause 6.10.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

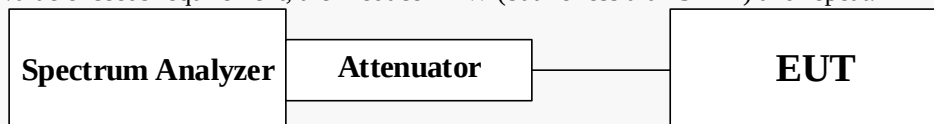
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to ANSI C63.10-2020 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine Compliant, and it is optional if the maximum conducted (average) output power was used to determine Compliant:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

APPENDIX - TEST DATA

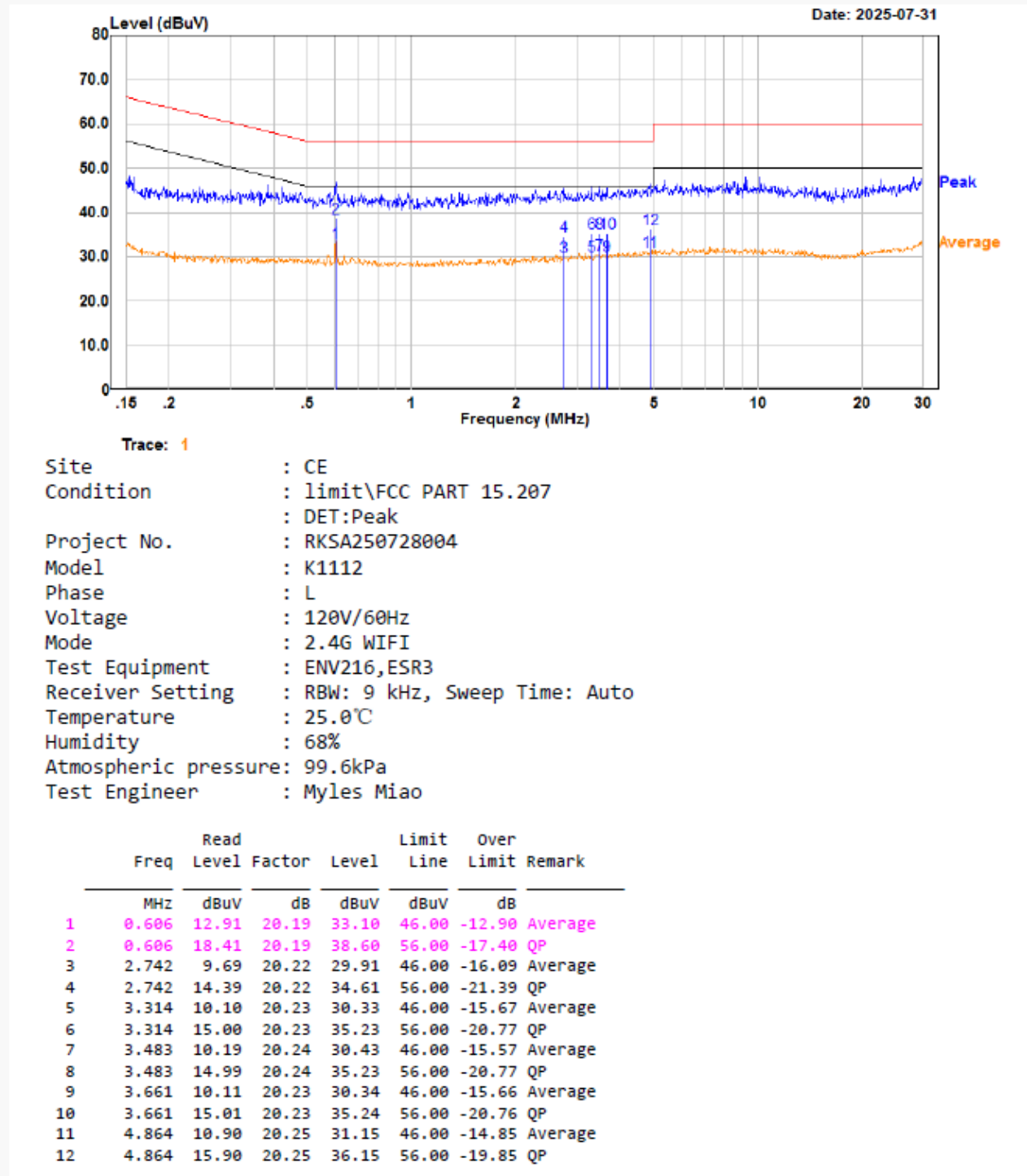
AC LINE CONDUCTED EMISSIONS

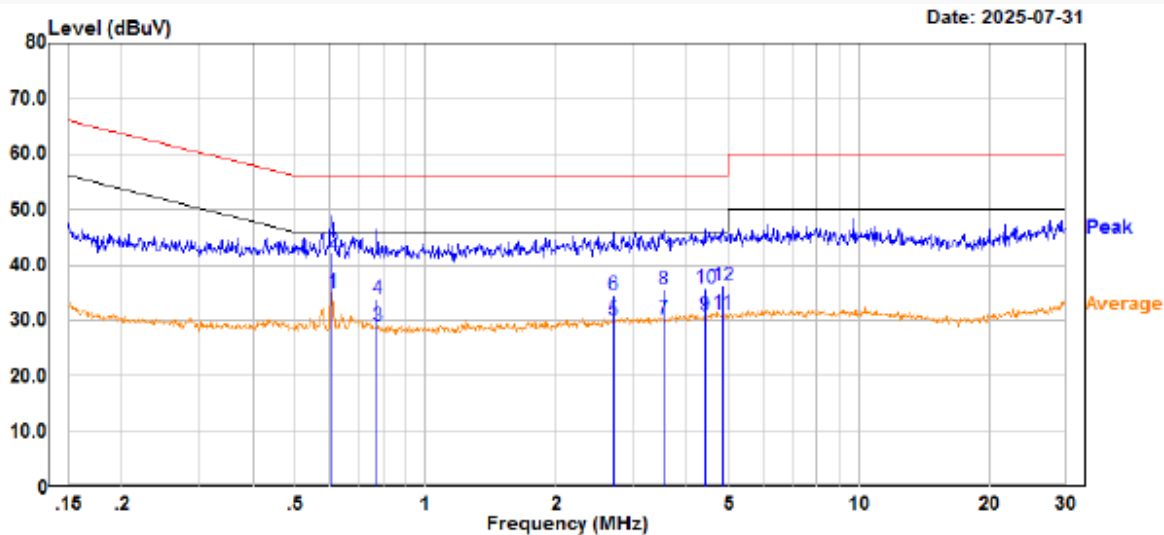
Environmental Conditions & Test Information

Test Date:	2025-07-31
Temperature:	25.0 °C
Relative Humidity:	68 %
ATM Pressure:	99.6 kPa
Test Result:	Pass
Test Engineer:	Myles Miao

For Wi-Fi Mode:

EUT operation mode: Transmitting in maximum output power mode and 802.11g mode low channel

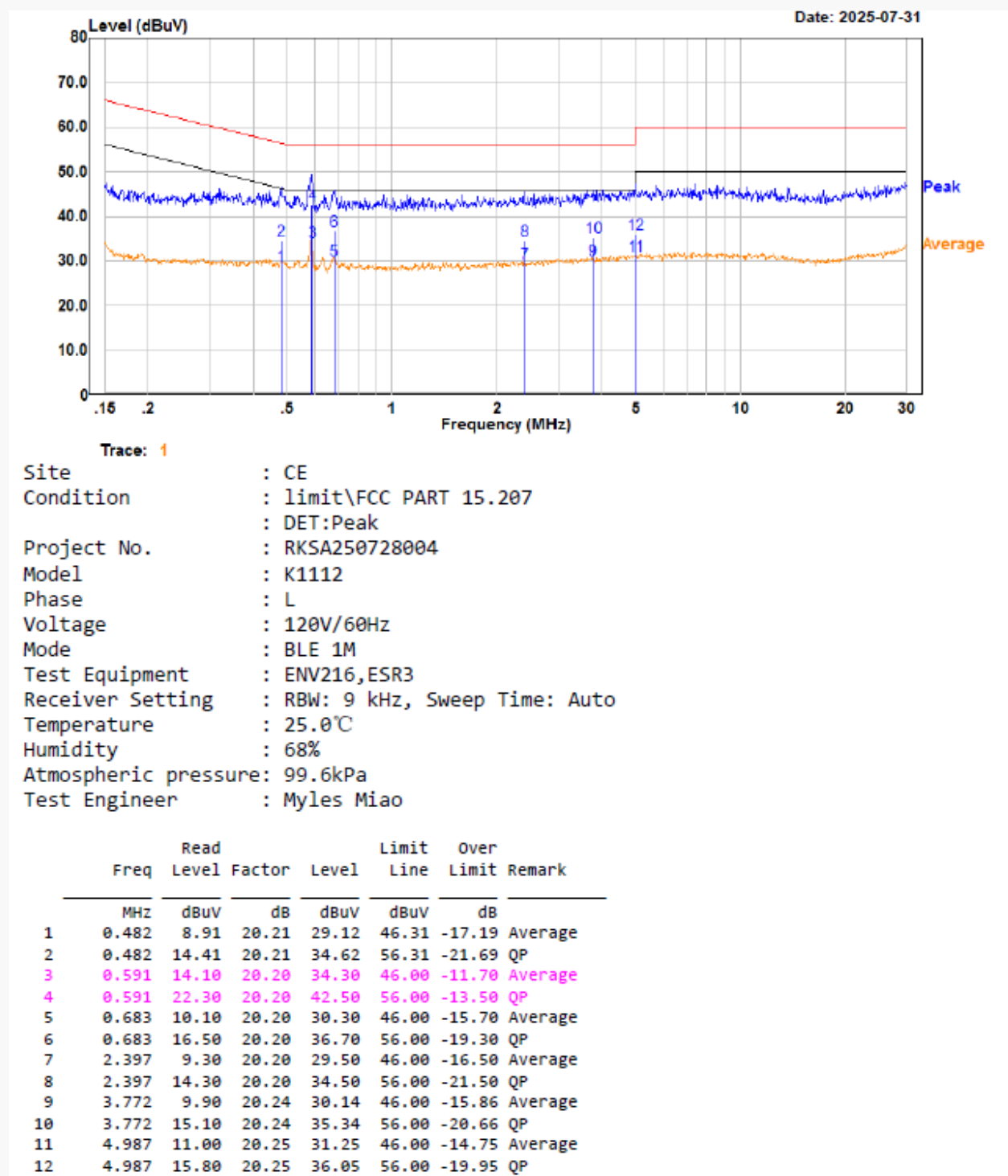


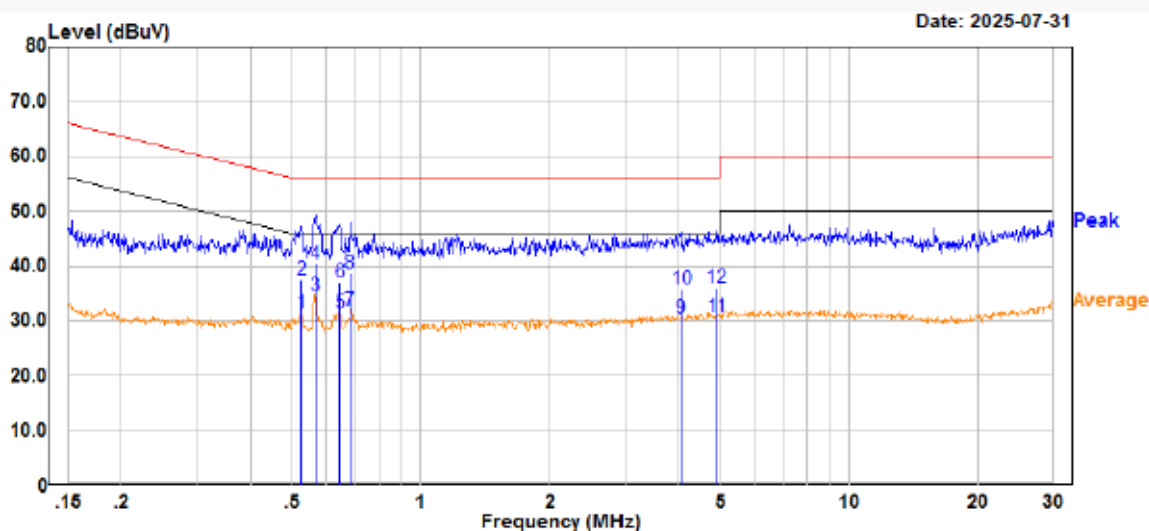


Trace: 1

Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKSA250728004
 Model : K1112
 Phase : N
 Voltage : 120V/60Hz
 Mode : 2.4G WIFI
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
 Temperature : 25.0°C
 Humidity : 68%
 Atmospheric pressure: 99.6kPa
 Test Engineer : Myles Miao

	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.612	14.91	20.19	35.10	46.00	-10.90 Average
2	0.612	22.11	20.19	42.30	56.00	-13.70 QP
3	0.773	8.90	20.05	28.95	46.00	-17.05 Average
4	0.773	13.80	20.05	33.85	56.00	-22.15 QP
5	2.715	9.69	20.22	29.91	46.00	-16.09 Average
6	2.715	14.29	20.22	34.51	56.00	-21.49 QP
7	3.536	10.10	20.23	30.33	46.00	-15.67 Average
8	3.536	15.20	20.23	35.43	56.00	-20.57 QP
9	4.403	10.69	20.25	30.94	46.00	-15.06 Average
10	4.403	15.59	20.25	35.84	56.00	-20.16 QP
11	4.840	10.90	20.25	31.15	46.00	-14.85 Average
12	4.840	15.90	20.25	36.15	56.00	-19.85 QP

For BLE Mode:*EUT operation mode: Transmitting in BLE (1 Mbps) middle channel (maximum output power)*

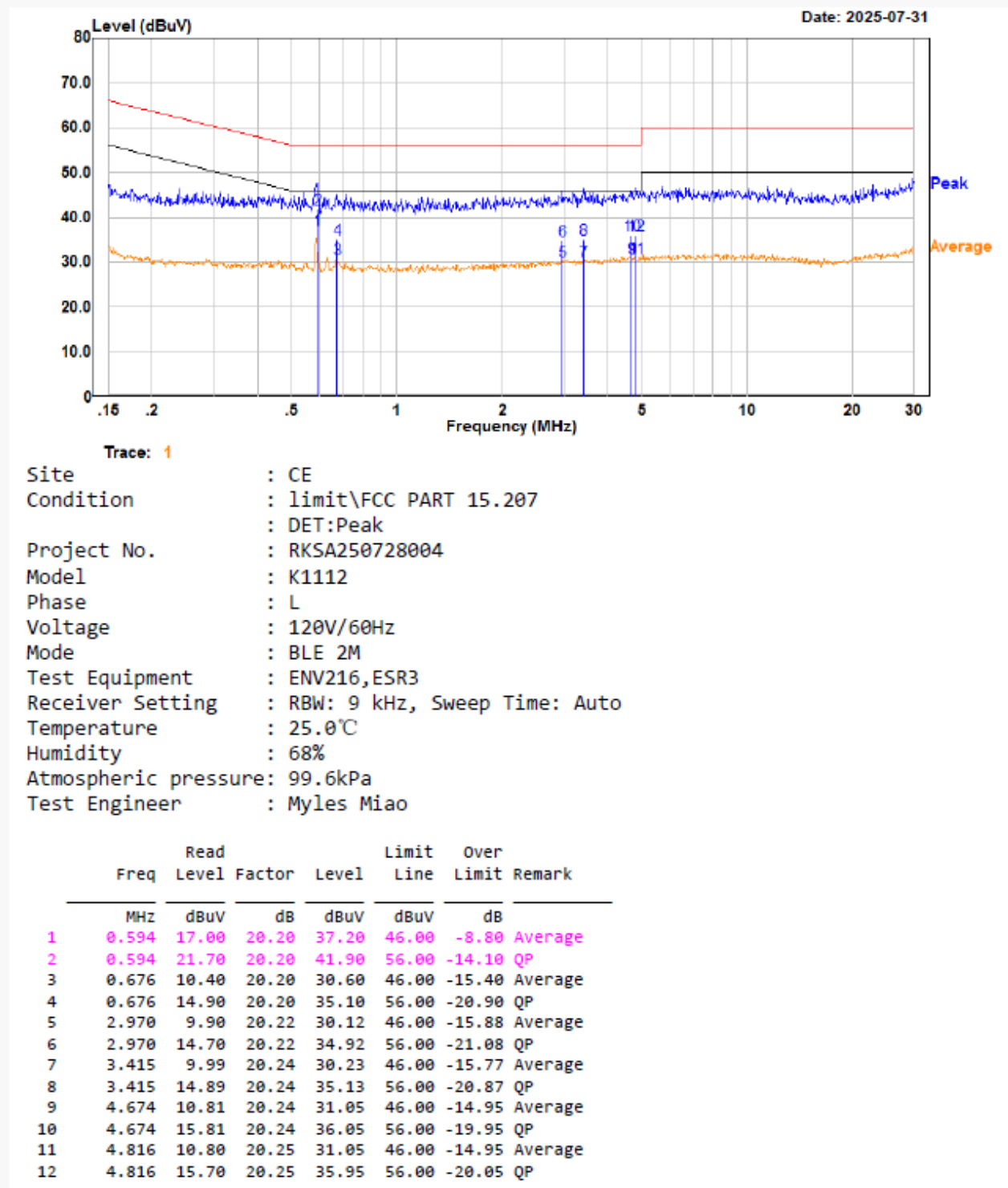


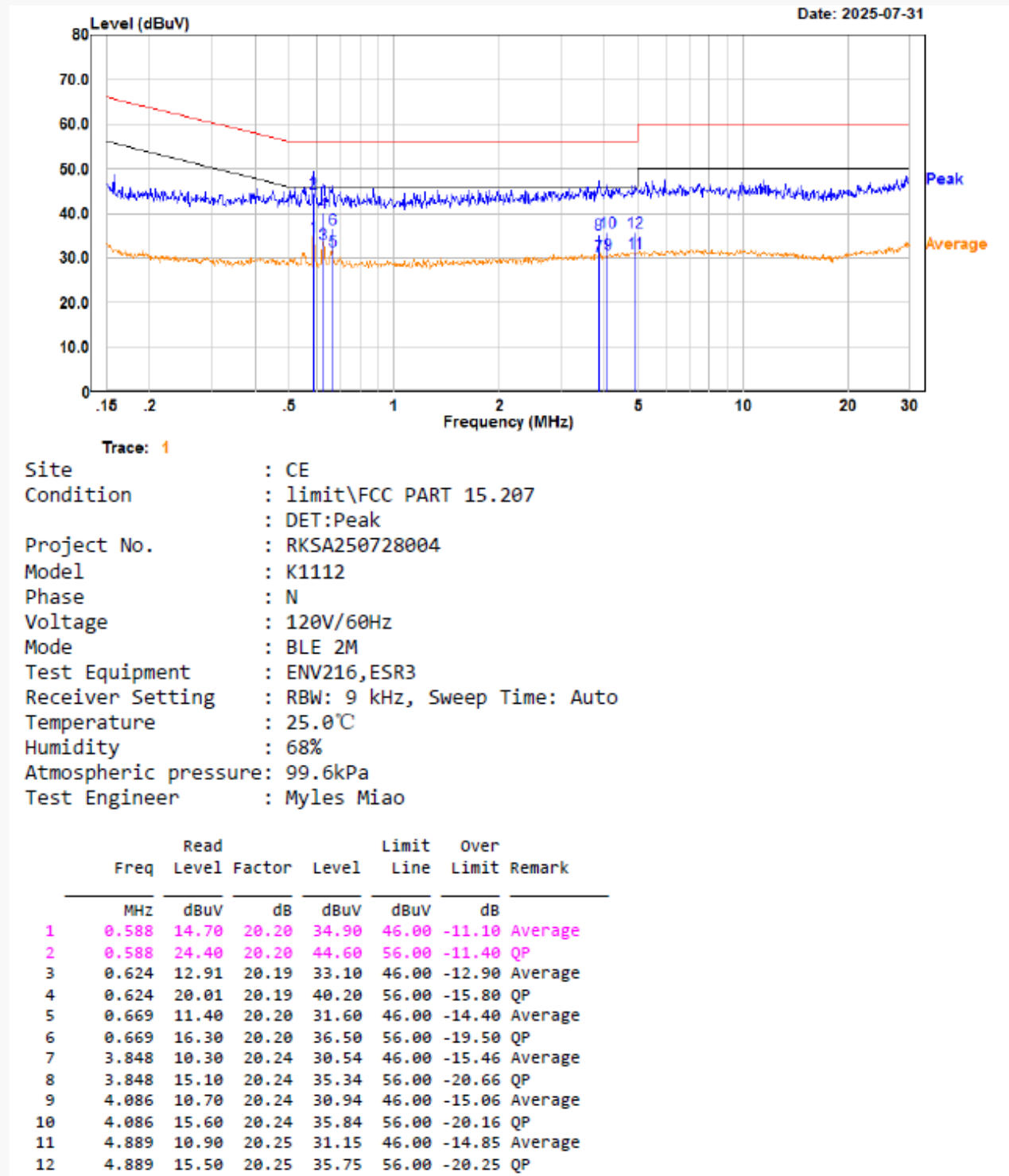
Trace: 1

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA250728004
Model : K1112
Phase : N
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 25.0°C
Humidity : 68%
Atmospheric pressure: 99.6kPa
Test Engineer : Myles Miao

	Freq	Read		Level	Limit	Over	Remark
		Level	Factor		Line	Limit	
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.527	11.30	20.19	31.49	46.00	-14.51	Average
2	0.527	17.30	20.19	37.49	56.00	-18.51	QP
3	0.568	14.39	20.20	34.59	46.00	-11.41	Average
4	0.568	20.29	20.20	40.49	56.00	-15.51	QP
5	0.646	11.30	20.20	31.50	46.00	-14.50	Average
6	0.646	16.90	20.20	37.10	56.00	-18.90	QP
7	0.683	11.70	20.20	31.90	46.00	-14.10	Average
8	0.683	18.50	20.20	38.70	56.00	-17.30	QP
9	4.045	10.20	20.24	30.44	46.00	-15.56	Average
10	4.045	15.60	20.24	35.84	56.00	-20.16	QP
11	4.889	10.50	20.25	30.75	46.00	-15.25	Average
12	4.889	15.70	20.25	35.95	56.00	-20.05	QP

EUT operation mode: Transmitting in BLE (2 Mbps) middle channel (maximum output power)



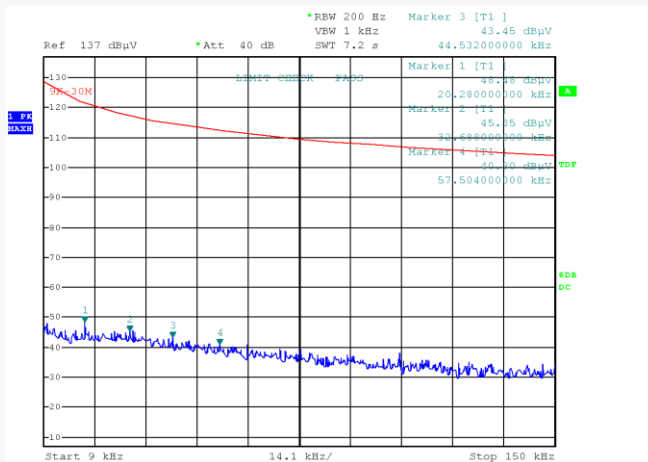


SPURIOUS EMISSIONS**Environmental Conditions & Test Information**

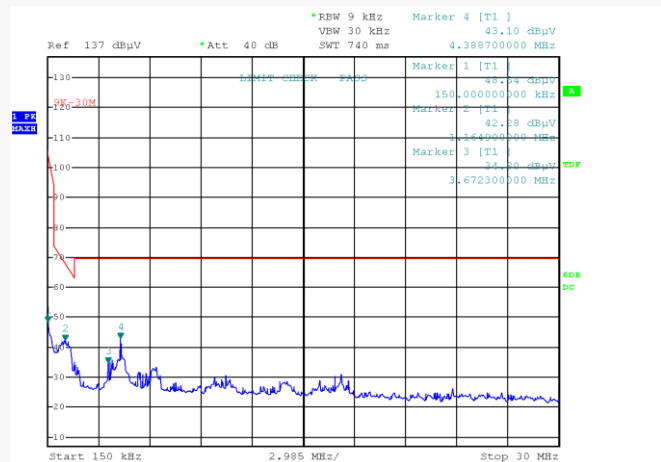
Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30MHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2025-08-07	2025-10-31	2025-08-22& 2025-08-23 & 2025-09-12	2025-09-05
Temperature:	25.9 °C	21.0 °C	26.5°C & 26.3°C & 26.6 °C	25.1 °C
Relative Humidity:	50 %	50 %	48% & 49% & 49%	45 %
ATM Pressure:	100.8 kPa	102.3 kPa	101.1 kPa & 101.0 kPa & 101.2 kPa	100.7 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Link Xia	Scarf Yang	Destine Hu	Hugh Wu

Test Result: Compliant

EUT operation mode: Transmitting

For Wi-Fi Mode:**9 kHz-30MHz:** (Transmitting in maximum output power mode and 802.11g mode low channel)**Parallel(worst case)****9kHz-150kHz**Project No.RKSA250728004
Date: 7.AUG.2025 17:00:52

Tester:Link Xia

150kHz-30MHzProject No.RKSA250728004
Date: 7.AUG.2025 17:04:28

Tester:Link Xia

9kHz-150kHz

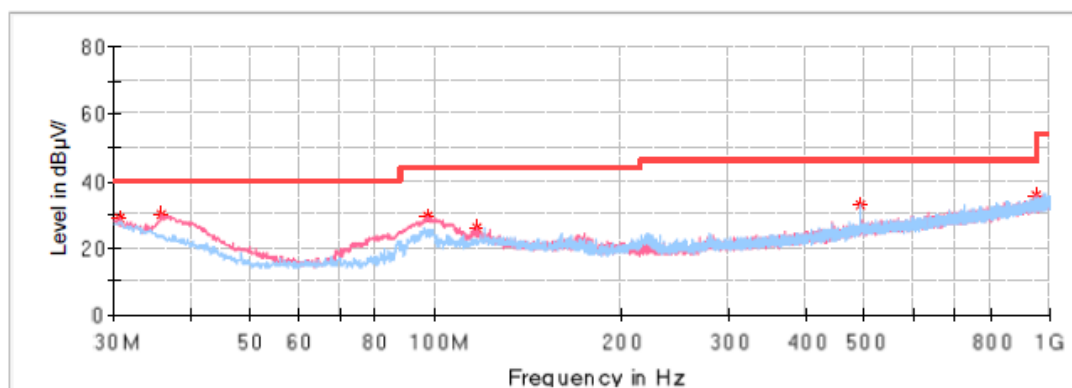
Frequency (MHz)	Corrected Amplitude (dB μ V/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dB μ V/m) @3m	Margin (dB)
0.020280	48.48	PK	-0.56	121.46	72.98
0.032688	45.35	PK	-1.04	117.32	71.97
0.044532	43.45	PK	-2.94	114.63	71.18
0.057504	40.80	PK	-4.69	112.41	71.61

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dB μ V/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dB μ V/m) @3m	Margin (dB)
0.150000	48.54	PK	-11.34	104.08	55.54
1.164900	42.28	PK	-28.16	63.26	20.98
3.672300	34.80	PK	-31.75	69.54	34.74
4.388700	43.10	PK	-31.97	69.54	26.44

30MHz-1GHz (Transmitting in maximum output power mode and 802.11g mode low channel):**Low Channel: 2412MHz****Common Information**

Project No: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in 802.11g mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 21.0°C
Humidity: 50%
Barometric Pressure: 102.3kPa
Test Engineer: Scarf Yang
Test Date: 2025/10/31

**Critical_Freqs**

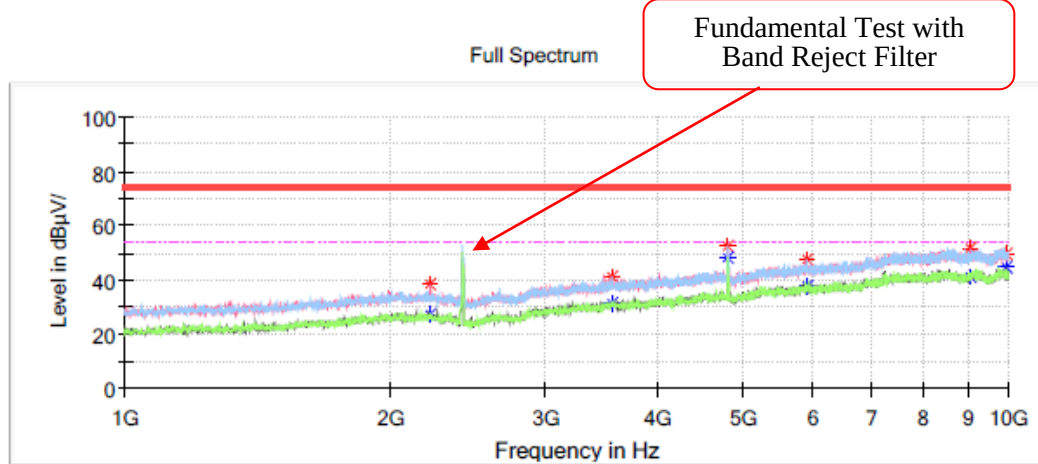
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.727500	28.87	40.00	11.13	V	-5.2
35.820000	29.94	40.00	10.06	V	-8.6
96.930000	29.26	43.50	14.24	V	-15.1
116.693750	26.31	43.50	17.19	V	-11.4
494.023750	33.11	46.00	12.89	H	-5.5
952.106250	35.81	46.00	10.19	V	1.9

1GHz-18GHz:
802.11b Mode:

Low Channel: 2412MHz

Common Information

Project No.:	RKSA250728004
EUT Model:	K1112
Test Mode:	2.4G WIFI 802.11b mode Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6°C
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12



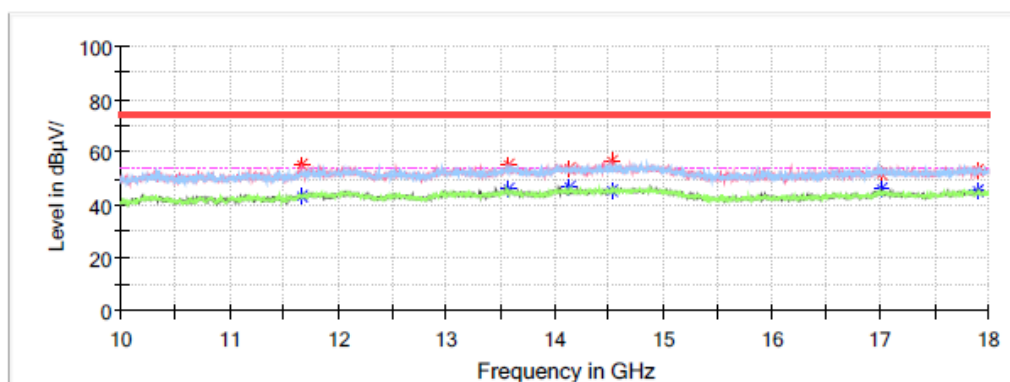
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2220.400000	---	26.94	54.00	27.06	V	-9.8
2220.400000	38.29	---	74.00	35.71	V	-9.8
3553.300000	---	31.54	54.00	22.46	V	-6.1
3553.300000	41.25	---	74.00	32.75	V	-6.1
4824.100000	52.16	---	74.00	21.84	H	-3.4
4824.100000	---	48.49	54.00	5.51	H	-3.4
5922.100000	---	37.67	54.00	16.33	H	-0.8
5922.100000	47.27	---	74.00	26.73	H	-0.8
9046.900000	---	41.21	54.00	12.79	V	4.7
9046.900000	51.47	---	74.00	22.53	V	4.7
9933.400000	49.37	---	74.00	24.63	V	6.2
9933.400000	---	45.10	54.00	8.90	V	6.2

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11b mode Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum



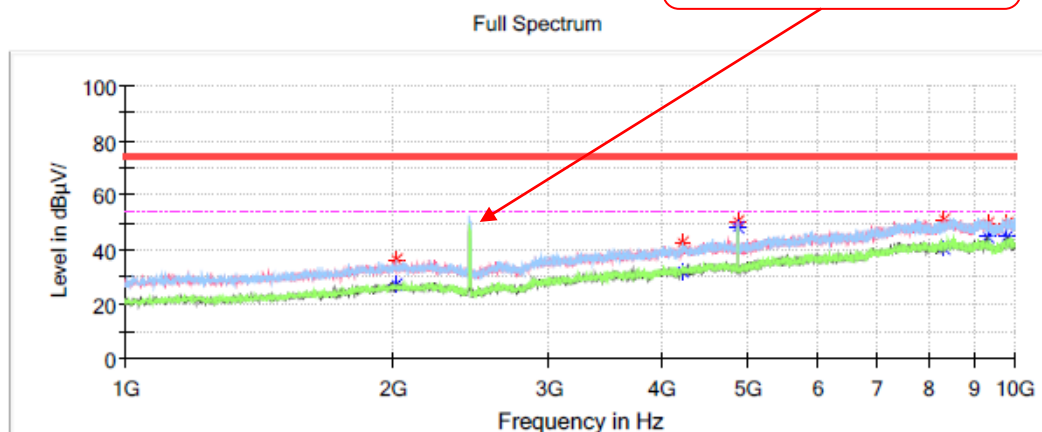
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11660.800000	55.14	---	74.00	18.86	V	8.4
11660.800000	---	43.69	54.00	10.31	V	8.4
13577.600000	55.57	---	74.00	18.43	H	10.2
13577.600000	---	46.06	54.00	7.94	H	10.2
14139.200000	54.11	---	74.00	19.89	H	11.3
14139.200000	---	46.90	54.00	7.10	H	11.3
14524.800000	56.41	---	74.00	17.59	V	11.9
14524.800000	---	45.23	54.00	8.77	V	11.9
17017.600000	51.92	---	74.00	22.08	V	10.9
17017.600000	---	45.87	54.00	8.13	V	10.9
17889.600000	---	45.76	54.00	8.24	V	11.5
17889.600000	52.86	---	74.00	21.14	V	11.5

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11b mode Middle Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Fundamental Test with
Band Reject Filter

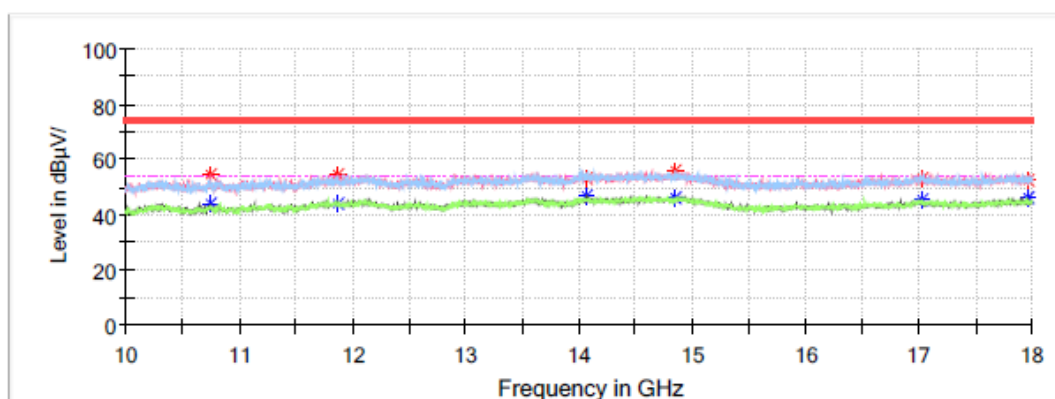
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2019.700000	---	27.00	54.00	27.00	H	-10.0
2019.700000	36.35	---	74.00	37.65	H	-10.0
4226.500000	---	32.36	54.00	21.64	V	-4.6
4226.500000	42.62	---	74.00	31.38	V	-4.6
4873.600000	---	47.98	54.00	6.02	H	-3.2
4873.600000	50.58	---	74.00	23.42	H	-3.2
8310.700000	---	40.86	54.00	13.14	H	4.2
8310.700000	51.29	---	74.00	22.71	H	4.2
9316.000000	49.72	---	74.00	24.28	V	4.7
9316.000000	---	44.71	54.00	9.29	V	4.7
9820.000000	---	44.66	54.00	9.34	H	5.8
9820.000000	49.54	---	74.00	24.46	H	5.8

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11b mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum



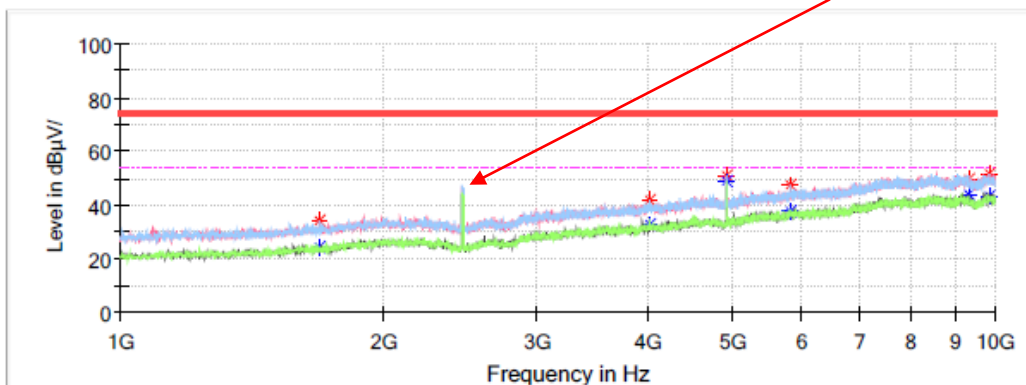
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10742.400000	---	43.83	54.00	10.17	V	6.7
10742.400000	54.31	---	74.00	19.69	V	6.7
11878.400000	---	43.91	54.00	10.09	V	8.8
11878.400000	54.74	---	74.00	19.26	V	8.8
14075.200000	---	46.74	54.00	7.26	V	11.2
14075.200000	53.41	---	74.00	20.59	V	11.2
14849.600000	---	45.93	54.00	8.07	H	10.8
14849.600000	56.28	---	74.00	17.72	H	10.8
17028.800000	52.87	---	74.00	21.13	H	10.9
17028.800000	---	45.63	54.00	8.37	H	10.9
17963.200000	52.12	---	74.00	21.88	V	11.7
17963.200000	---	46.28	54.00	7.72	V	11.7

High Channel: 2462MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11b mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum

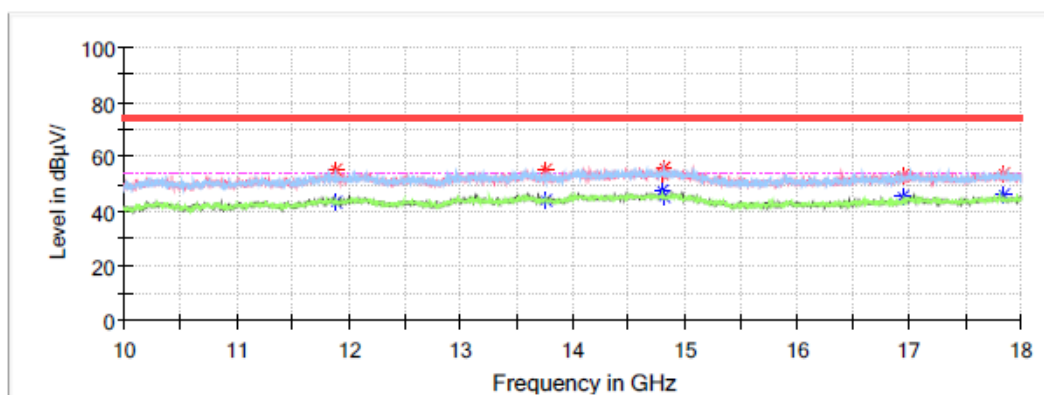
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1686.700000	---	24.20	54.00	29.80	H	-12.2
1686.700000	34.02	---	74.00	39.98	H	-12.2
4035.700000	---	32.66	54.00	21.34	H	-4.9
4035.700000	41.89	---	74.00	32.11	H	-4.9
4924.000000	---	48.70	54.00	5.30	H	-3.1
4924.000000	50.92	---	74.00	23.08	H	-3.1
5845.600000	---	37.65	54.00	16.35	V	-1.0
5845.600000	47.62	---	74.00	26.38	V	-1.0
9309.700000	49.72	---	74.00	24.28	V	4.7
9309.700000	---	44.03	54.00	9.97	V	4.7
9844.300000	---	43.63	54.00	10.37	H	5.9
9844.300000	51.87	---	74.00	22.13	H	5.9

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11b mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum



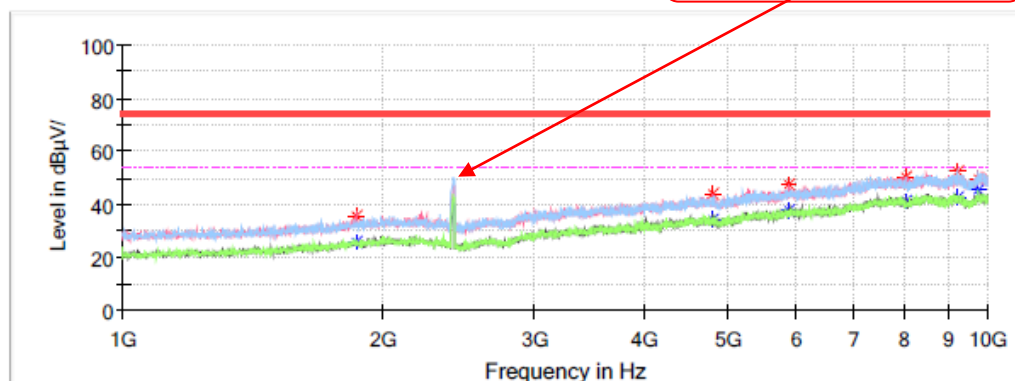
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11881.600000	55.05	---	74.00	18.95	V	8.8
11881.600000	---	43.27	54.00	10.73	V	8.8
13764.800000	---	44.14	54.00	9.86	V	10.6
13764.800000	55.10	---	74.00	18.90	V	10.6
14804.800000	---	47.41	54.00	6.59	H	10.9
14804.800000	53.65	---	74.00	20.35	H	10.9
14824.000000	---	45.67	54.00	8.33	H	10.9
14824.000000	55.77	---	74.00	18.23	H	10.9
16948.800000	---	45.71	54.00	8.29	V	10.8
16948.800000	53.11	---	74.00	20.89	V	10.8
17844.800000	54.08	---	74.00	19.92	H	11.4
17844.800000	---	45.86	54.00	8.14	H	11.4

802.11g Mode:**Low Channel: 2412MHz****Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11g mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum

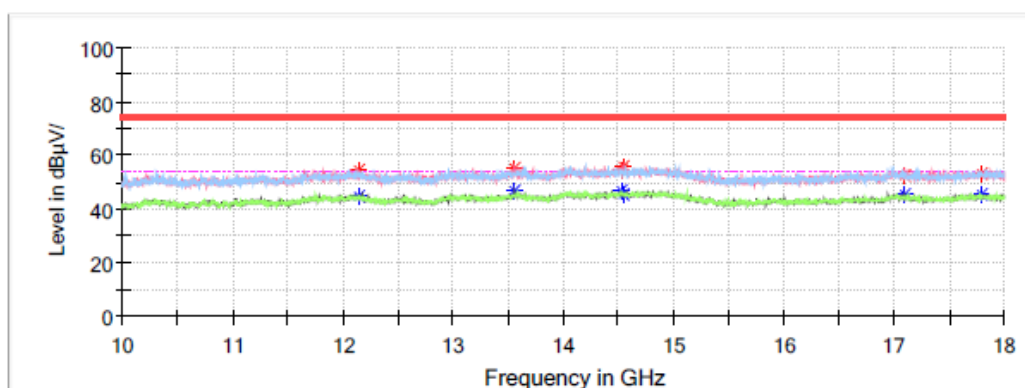
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1859.500000	35.54	---	74.00	38.46	V	-11.0
1859.500000	---	25.75	54.00	28.25	V	-11.0
4816.000000	44.00	---	74.00	30.00	V	-3.4
4816.000000	---	34.54	54.00	19.46	V	-3.4
5893.300000	47.51	---	74.00	26.49	V	-0.9
5893.300000	---	37.74	54.00	16.26	V	-0.9
8042.500000	---	41.06	54.00	12.94	H	3.4
8042.500000	50.66	---	74.00	23.34	H	3.4
9217.900000	---	42.35	54.00	11.65	H	4.7
9217.900000	52.38	---	74.00	21.62	H	4.7
9764.200000	---	45.19	54.00	8.81	H	5.6
9764.200000	49.49	---	74.00	24.51	H	5.6

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11g mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum

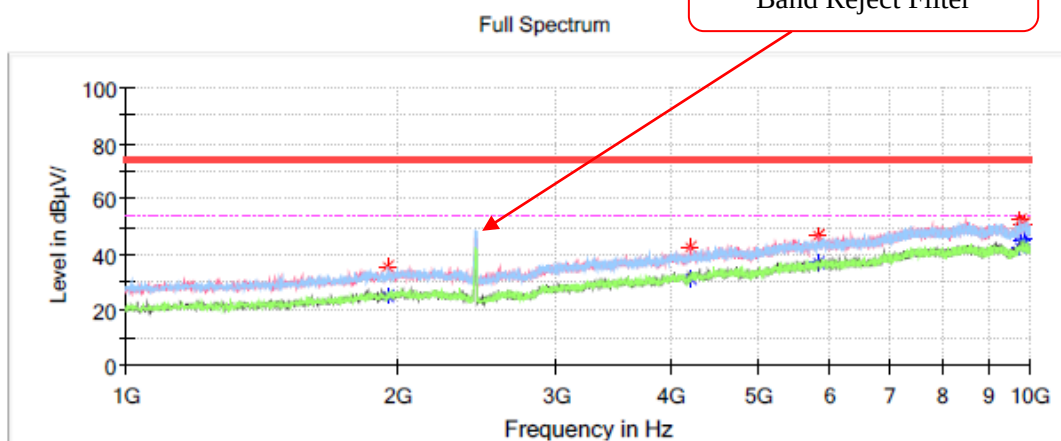


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12140.800000	---	45.04	54.00	8.96	V	9.0
12140.800000	54.55	---	74.00	19.45	V	9.0
13564.800000	---	46.77	54.00	7.23	V	10.1
13564.800000	55.53	---	74.00	18.47	V	10.1
14531.200000	54.47	---	74.00	19.53	H	11.9
14531.200000	---	47.13	54.00	6.87	H	11.9
14537.600000	56.17	---	74.00	17.83	V	11.8
14537.600000	---	45.40	54.00	8.60	V	11.8
17092.800000	52.61	---	74.00	21.39	V	10.9
17092.800000	---	45.61	54.00	8.39	V	10.9
17800.000000	53.30	---	74.00	20.70	H	11.2
17800.000000	---	45.64	54.00	8.36	H	11.2

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11g mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

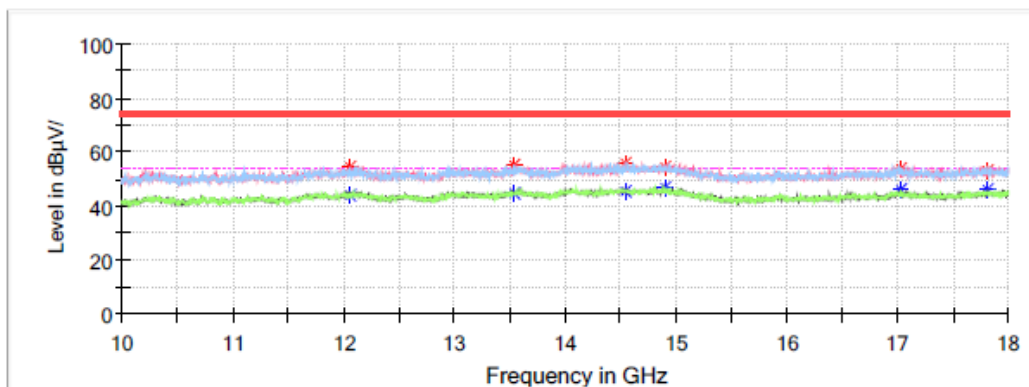
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1948.600000	---	25.21	54.00	28.79	V	-10.4
1948.600000	35.39	---	74.00	38.61	V	-10.4
4217.500000	---	31.72	54.00	22.28	V	-4.6
4217.500000	42.34	---	74.00	31.66	V	-4.6
5832.100000	---	36.75	54.00	17.25	H	-1.0
5832.100000	47.17	---	74.00	26.83	H	-1.0
9765.100000	---	42.91	54.00	11.09	V	5.6
9765.100000	52.68	---	74.00	21.32	V	5.6
9793.900000	51.29	---	74.00	22.71	V	5.7
9793.900000	---	44.81	54.00	9.19	V	5.7
9835.300000	---	45.73	54.00	8.27	H	5.8
9835.300000	51.14	---	74.00	22.86	H	5.8

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11g mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum

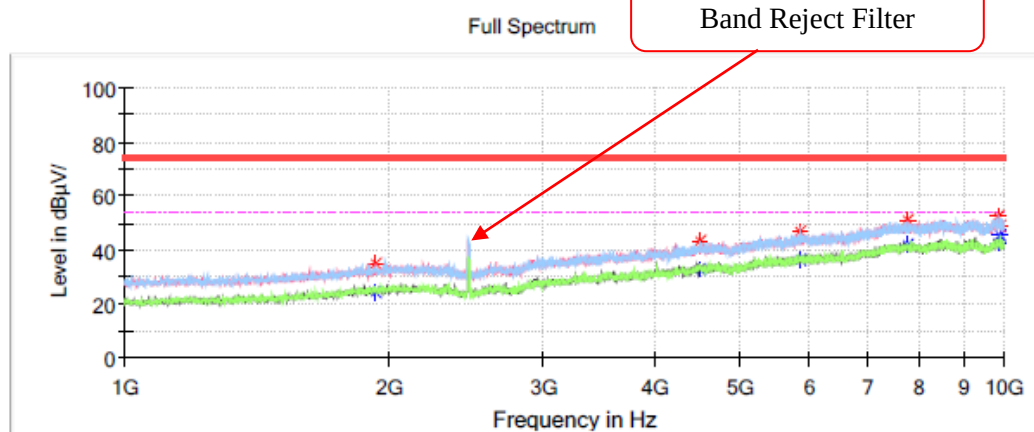


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12059.200000	54.45	---	74.00	19.55	V	9.0
12059.200000	---	44.07	54.00	9.93	V	9.0
13532.800000	---	44.66	54.00	9.34	V	10.1
13532.800000	54.98	---	74.00	19.02	V	10.1
14548.800000	---	45.57	54.00	8.43	V	11.8
14548.800000	56.09	---	74.00	17.91	V	11.8
14896.000000	---	46.93	54.00	7.07	H	10.6
14896.000000	54.72	---	74.00	19.28	H	10.6
17033.600000	---	45.94	54.00	8.06	H	10.9
17033.600000	53.98	---	74.00	20.02	H	10.9
17814.400000	---	46.32	54.00	7.68	V	11.3
17814.400000	52.94	---	74.00	21.06	V	11.3

High Channel: 2462MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11g mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

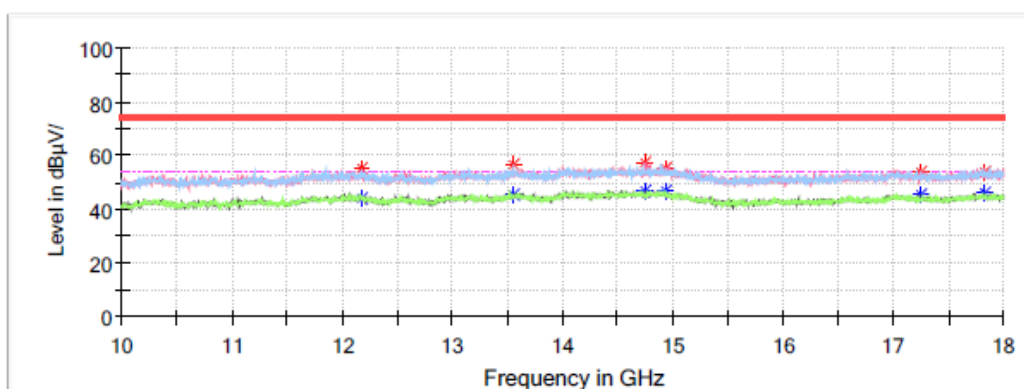
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1927.900000	35.00	---	74.00	39.00	V	-10.5
1927.900000	---	24.76	54.00	29.24	V	-10.5
4521.700000	---	33.10	54.00	20.90	V	-4.1
4521.700000	43.07	---	74.00	30.93	V	-4.1
5878.900000	46.90	---	74.00	27.10	H	-0.9
5878.900000	---	36.54	54.00	17.46	H	-0.9
7777.000000	---	41.64	54.00	12.36	V	3.1
7777.000000	51.10	---	74.00	22.90	V	3.1
9829.900000	---	42.78	54.00	11.22	V	5.8
9829.900000	52.27	---	74.00	21.73	V	5.8
9888.400000	---	45.47	54.00	8.53	H	6.0
9888.400000	48.81	---	74.00	25.19	H	6.0

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11g mode High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12180.800000	---	44.01	54.00	9.99	V	9.0
12180.800000	55.04	---	74.00	18.96	V	9.0
13560.000000	---	45.49	54.00	8.51	V	10.1
13560.000000	56.34	---	74.00	17.66	V	10.1
14747.200000	57.28	---	74.00	16.72	V	11.1
14747.200000	---	46.85	54.00	7.15	V	11.1
14931.200000	55.51	---	74.00	18.49	H	10.5
14931.200000	---	46.87	54.00	7.13	H	10.5
17244.800000	53.51	---	74.00	20.49	H	10.7
17244.800000	---	45.29	54.00	8.71	H	10.7
17832.000000	53.55	---	74.00	20.45	V	11.3
17832.000000	---	45.93	54.00	8.07	V	11.3

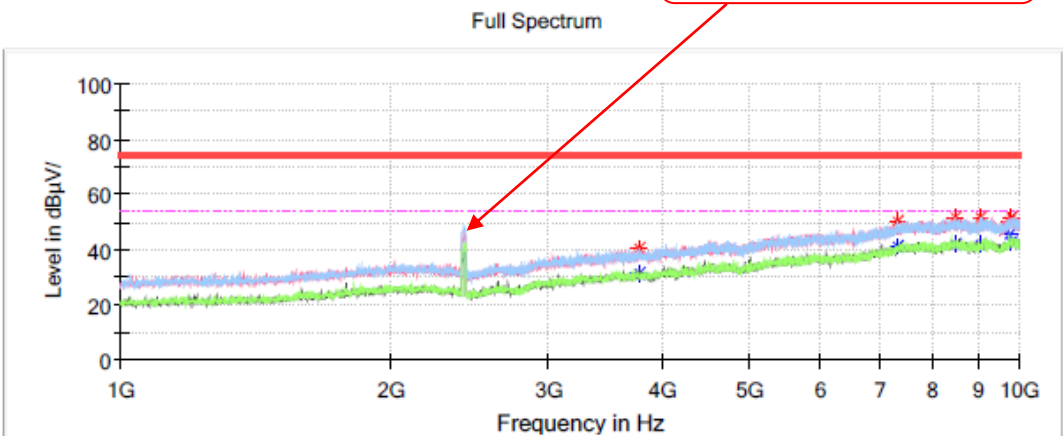
802.11n-HT20 Mode :

Low Channel: 2412MHz

Common Information

Project No.:	RKSA250728004
EUT Model:	K1112
Test Mode:	2.4G WIFI 802.11n20 mode Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6℃
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Fundamental Test with
Band Reject Filter



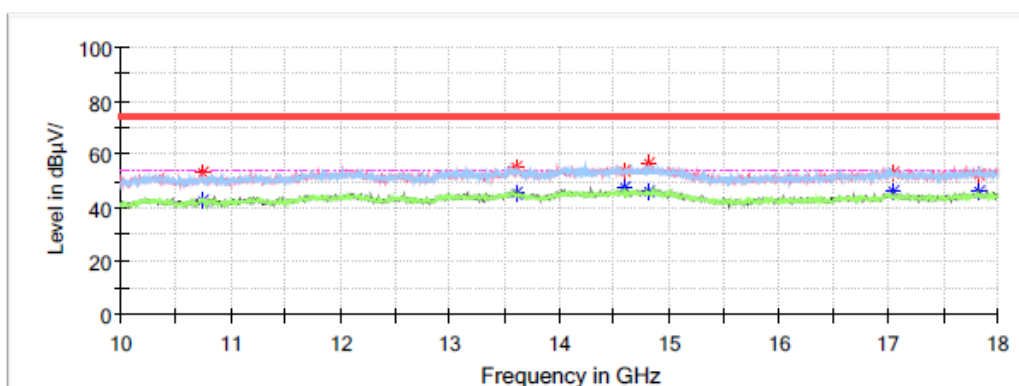
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
3780.100000	40.91	---	74.00	33.09	H	-5.6
3780.100000	---	31.39	54.00	22.61	H	-5.6
7316.200000	50.35	---	74.00	23.65	H	2.4
7316.200000	---	41.16	54.00	12.84	H	2.4
8491.600000	---	41.67	54.00	12.33	V	4.7
8491.600000	51.56	---	74.00	22.44	V	4.7
9037.900000	---	42.11	54.00	11.89	H	4.7
9037.900000	52.08	---	74.00	21.92	H	4.7
9739.000000	---	45.31	54.00	8.69	H	5.5
9739.000000	50.15	---	74.00	23.85	H	5.5
9822.700000	---	42.72	54.00	11.28	V	5.8
9822.700000	52.07	---	74.00	21.93	V	5.8

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11n20 mode Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6°C
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum

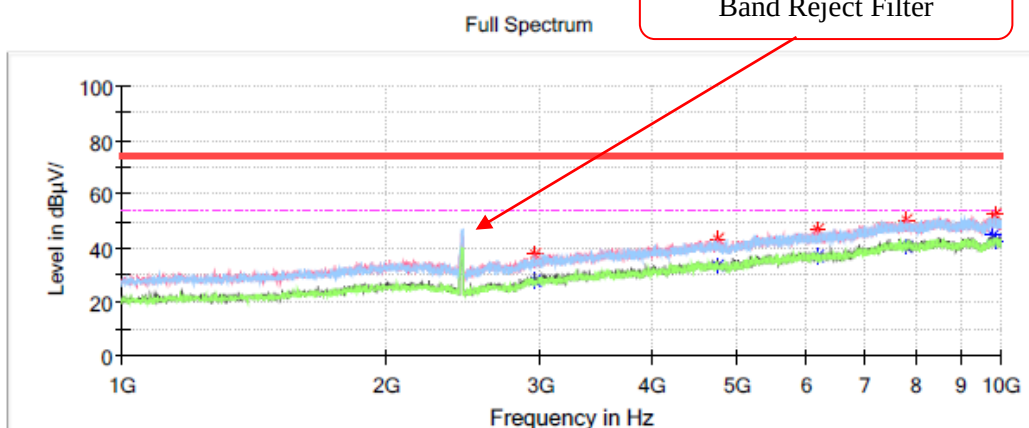


Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10745.600000	53.11	---	74.00	20.89	V	6.7
10745.600000	---	42.78	54.00	11.22	V	6.7
13614.400000	---	45.32	54.00	8.68	H	10.2
13614.400000	55.28	---	74.00	18.72	H	10.2
14592.000000	54.11	---	74.00	19.89	V	11.7
14592.000000	---	47.25	54.00	6.75	V	11.7
14820.800000	56.84	---	74.00	17.16	V	10.9
14820.800000	---	46.04	54.00	7.96	V	10.9
17044.800000	53.03	---	74.00	20.97	H	10.9
17044.800000	---	45.89	54.00	8.11	H	10.9
17836.800000	---	45.89	54.00	8.11	V	11.3
17836.800000	52.31	---	74.00	21.69	V	11.3

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11n20 mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

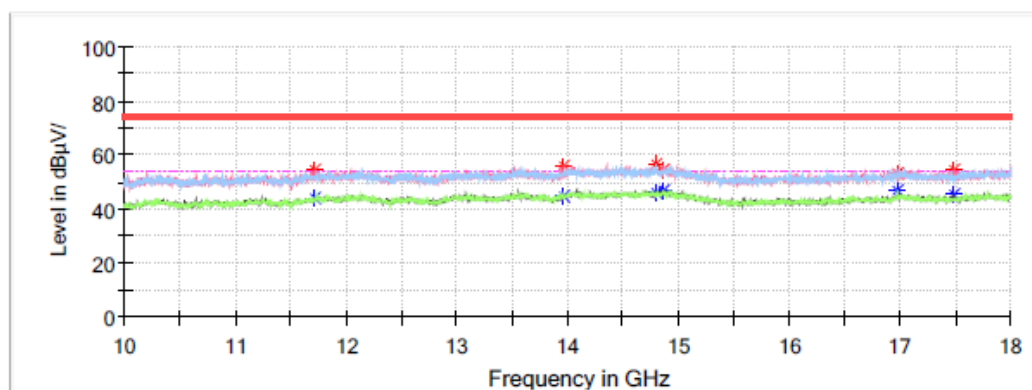
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2954.800000	37.81	---	74.00	36.19	V	-8.2
2954.800000	---	27.81	54.00	26.19	V	-8.2
4773.700000	43.48	---	74.00	30.52	V	-3.5
4773.700000	---	33.91	54.00	20.09	V	-3.5
6194.800000	46.78	---	74.00	27.22	V	-0.7
6194.800000	---	37.19	54.00	16.81	V	-0.7
7800.400000	---	40.32	54.00	13.68	H	3.2
7800.400000	50.44	---	74.00	23.56	H	3.2
9818.200000	49.64	---	74.00	24.36	H	5.8
9818.200000	---	44.70	54.00	9.30	H	5.8
9869.500000	52.19	---	74.00	21.81	V	6.0
9869.500000	---	42.89	54.00	11.11	V	6.0

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11n20 mode Middle Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum

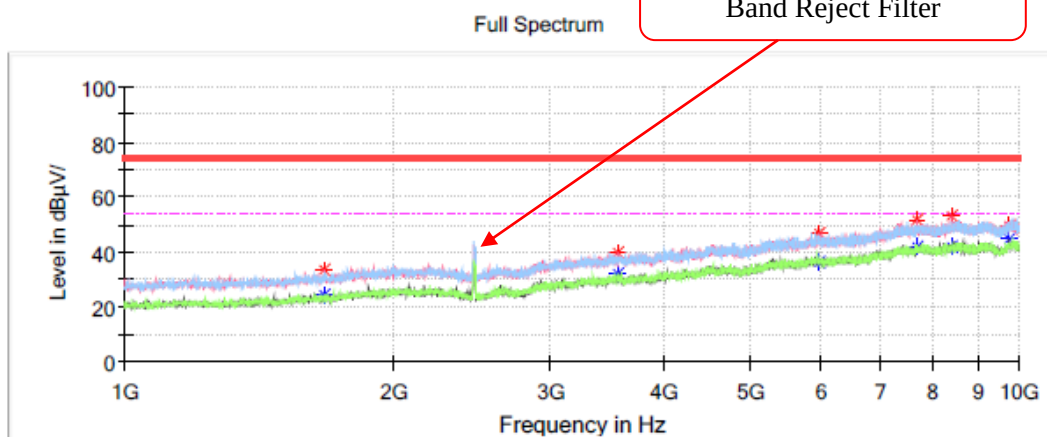


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11721.600000	---	44.16	54.00	9.84	V	8.5
11721.600000	54.78	---	74.00	19.22	V	8.5
13964.800000	---	45.01	54.00	8.99	H	11.0
13964.800000	55.94	---	74.00	18.06	H	11.0
14798.400000	---	45.95	54.00	8.05	H	11.0
14798.400000	56.79	---	74.00	17.21	H	11.0
14870.400000	---	47.00	54.00	7.00	V	10.7
14870.400000	54.81	---	74.00	19.19	V	10.7
16976.000000	53.20	---	74.00	20.80	H	10.9
16976.000000	---	46.62	54.00	7.38	H	10.9
17489.600000	---	45.47	54.00	8.53	V	10.4
17489.600000	54.55	---	74.00	19.45	V	10.4

High Channel: 2462MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11n20 mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

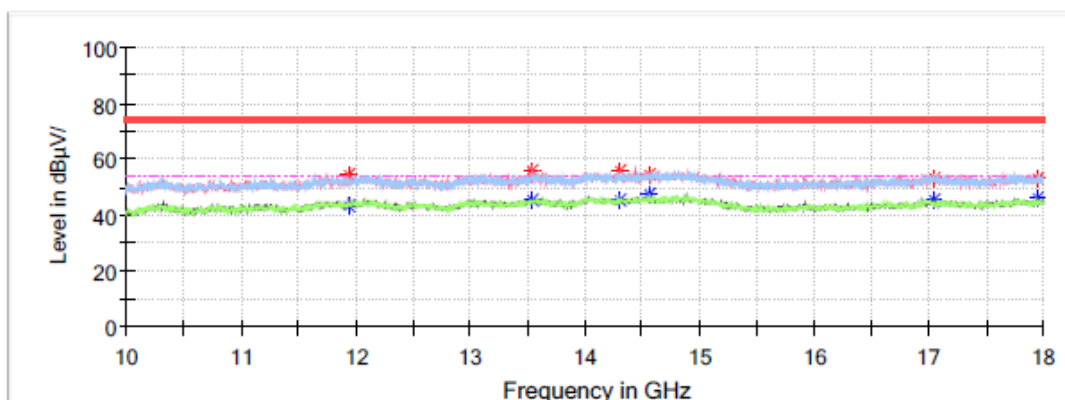
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1675.000000	---	24.35	54.00	29.65	V	-12.2
1675.000000	33.44	---	74.00	40.56	V	-12.2
3567.700000	---	32.49	54.00	21.51	H	-6.1
3567.700000	40.00	---	74.00	34.00	H	-6.1
5987.800000	---	36.69	54.00	17.31	V	-0.6
5987.800000	47.00	---	74.00	27.00	V	-0.6
7699.600000	---	41.70	54.00	12.30	V	3.1
7699.600000	52.00	---	74.00	22.00	V	3.1
8405.200000	---	42.18	54.00	11.82	V	4.4
8405.200000	52.92	---	74.00	21.08	V	4.4
9751.600000	49.39	---	74.00	24.61	V	5.6
9751.600000	---	45.03	54.00	8.97	V	5.6

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11n20 mode High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11934.400000	---	43.44	54.00	10.56	H	8.9
11934.400000	54.47	---	74.00	19.53	H	8.9
13548.800000	55.65	---	74.00	18.35	V	10.1
13548.800000	---	45.16	54.00	8.84	V	10.1
14312.000000	55.94	---	74.00	18.06	V	11.6
14312.000000	---	45.23	54.00	8.77	V	11.6
14568.000000	54.21	---	74.00	19.79	H	11.7
14568.000000	---	47.22	54.00	6.78	H	11.7
17052.800000	53.21	---	74.00	20.79	V	10.9
17052.800000	---	45.39	54.00	8.61	V	10.9
17940.800000	52.89	---	74.00	21.11	H	11.6
17940.800000	---	46.04	54.00	7.96	H	11.6

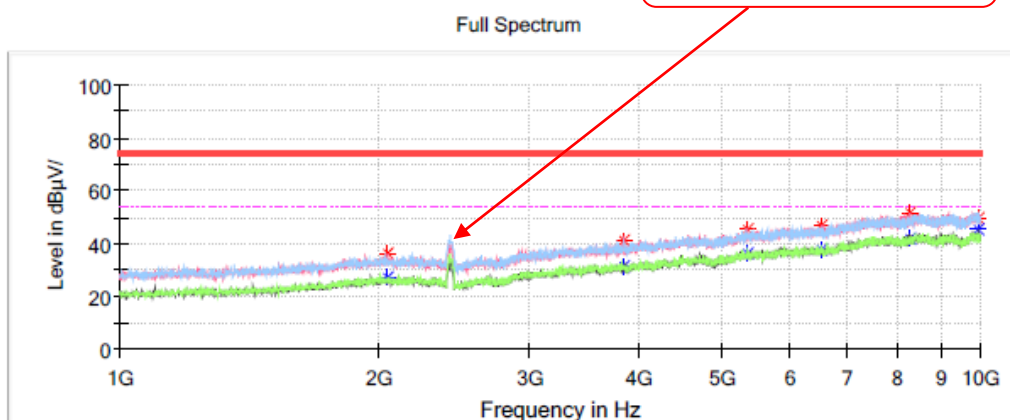
802.11n-HT40 Mode :

Low Channel: 2422MHz

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11n40 mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Fundamental Test with
Band Reject Filter



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2047.600000	---	26.97	54.00	27.03	V	-10.0
2047.600000	36.46	---	74.00	37.54	V	-10.0
3844.000000	---	31.12	54.00	22.88	H	-5.4
3844.000000	41.09	---	74.00	32.91	H	-5.4
5377.600000	---	36.37	54.00	17.63	V	-2.0
5377.600000	45.28	---	74.00	28.72	V	-2.0
6545.800000	---	38.01	54.00	15.99	H	-0.6
6545.800000	47.19	---	74.00	26.81	H	-0.6
8299.000000	51.95	---	74.00	22.05	V	4.1
8299.000000	---	42.15	54.00	11.85	V	4.1
9933.400000	49.39	---	74.00	24.61	V	6.2
9933.400000	---	45.29	54.00	8.71	V	6.2

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11n40 mode Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum

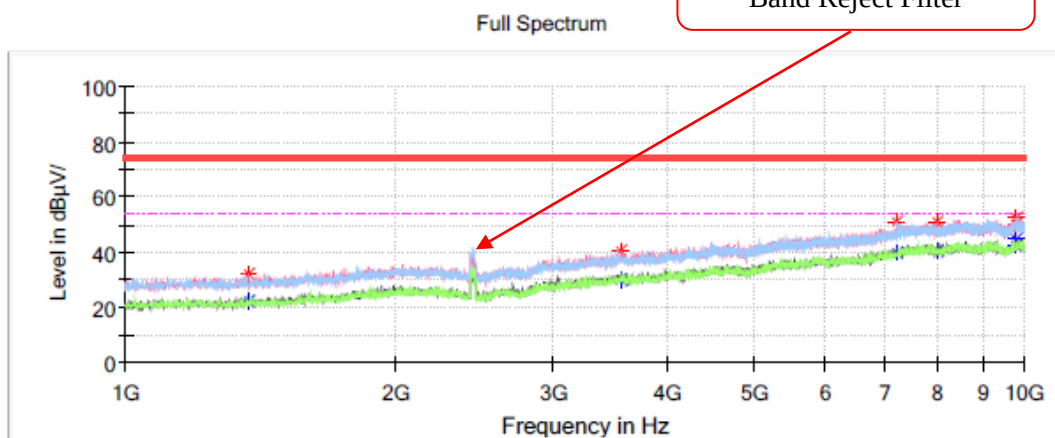


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10376.000000	---	43.24	54.00	10.76	V	6.6
10376.000000	53.93	---	74.00	20.07	V	6.6
13652.800000	---	44.94	54.00	9.06	H	10.3
13652.800000	56.02	---	74.00	17.98	H	10.3
14572.800000	---	46.10	54.00	7.90	H	11.7
14572.800000	57.42	---	74.00	16.58	H	11.7
14699.200000	---	47.15	54.00	6.85	V	11.3
14699.200000	54.12	---	74.00	19.88	V	11.3
17030.400000	54.44	---	74.00	19.56	V	10.9
17030.400000	---	45.93	54.00	8.07	V	10.9
17924.800000	53.26	---	74.00	20.74	H	11.6
17924.800000	---	46.06	54.00	7.94	H	11.6

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11n40 mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

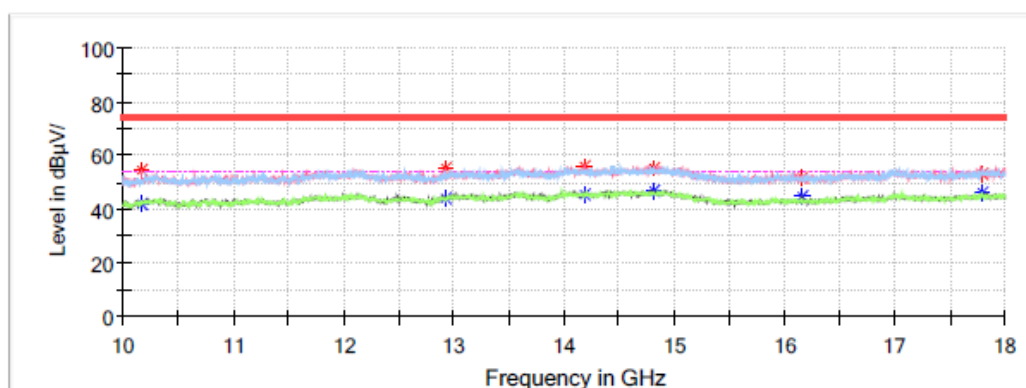
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1370.800000	---	22.37	54.00	31.63	V	-13.9
1370.800000	32.14	---	74.00	41.86	V	-13.9
3563.200000	---	30.29	54.00	23.71	V	-6.1
3563.200000	40.34	---	74.00	33.66	V	-6.1
7228.000000	---	40.20	54.00	13.80	H	2.2
7228.000000	50.86	---	74.00	23.14	H	2.2
8002.000000	---	40.86	54.00	13.14	V	3.3
8002.000000	51.33	---	74.00	22.67	V	3.3
9805.600000	52.14	---	74.00	21.86	H	5.8
9805.600000	---	42.44	54.00	11.56	H	5.8
9816.400000	50.31	---	74.00	23.69	V	5.8
9816.400000	---	44.58	54.00	9.42	V	5.8

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11n40 mode Middle Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum

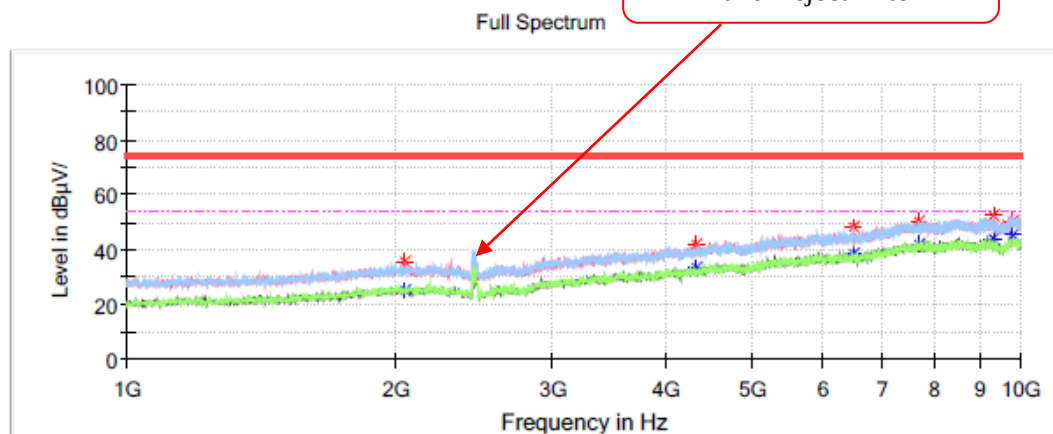


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10176.000000	---	42.15	54.00	11.85	V	6.5
10176.000000	54.42	---	74.00	19.58	V	6.5
12932.800000	---	43.83	54.00	10.17	V	9.1
12932.800000	55.14	---	74.00	18.86	V	9.1
14195.200000	56.22	---	74.00	17.78	V	11.4
14195.200000	---	45.47	54.00	8.53	V	11.4
14817.600000	55.12	---	74.00	18.88	H	10.9
14817.600000	---	46.99	54.00	7.01	H	10.9
16153.600000	51.75	---	74.00	22.25	V	8.9
16153.600000	---	44.53	54.00	9.47	V	8.9
17790.400000	53.19	---	74.00	20.81	H	11.2
17790.400000	---	46.20	54.00	7.80	H	11.2

High Channel: 2452MHz**Common Information**

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11n40 mode High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

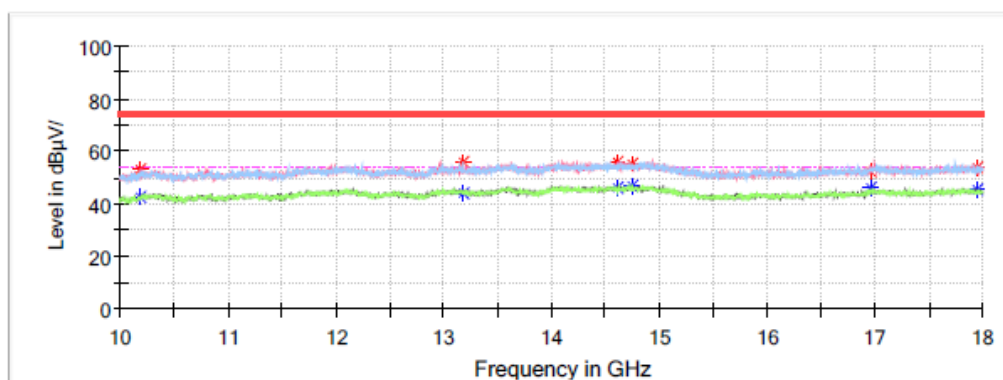
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2050.300000	---	25.00	54.00	29.00	V	-10.0
2050.300000	35.33	---	74.00	38.67	V	-10.0
4340.800000	---	33.43	54.00	20.57	V	-4.4
4340.800000	41.98	---	74.00	32.02	V	-4.4
6517.900000	---	38.33	54.00	15.67	H	-0.8
6517.900000	48.01	---	74.00	25.99	H	-0.8
7688.800000	---	42.17	54.00	11.83	V	3.1
7688.800000	50.56	---	74.00	23.44	V	3.1
9321.400000	52.33	---	74.00	21.67	V	4.7
9321.400000	---	44.02	54.00	9.98	V	4.7
9820.000000	50.02	---	74.00	23.98	H	5.8
9820.000000	---	45.28	54.00	8.72	H	5.8

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: 2.4G WIFI 802.11n40 mode High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10192.000000	---	42.41	54.00	11.59	V	6.5
10192.000000	53.27	---	74.00	20.73	V	6.5
13180.800000	---	44.36	54.00	9.64	H	9.5
13180.800000	56.08	---	74.00	17.92	H	9.5
14616.000000	56.16	---	74.00	17.84	V	11.6
14616.000000	---	46.13	54.00	7.87	V	11.6
14742.400000	55.54	---	74.00	18.46	H	11.2
14742.400000	---	46.95	54.00	7.05	H	11.2
16958.400000	52.72	---	74.00	21.28	V	10.8
16958.400000	---	46.00	54.00	8.00	V	10.8
17944.000000	53.61	---	74.00	20.39	H	11.6
17944.000000	---	45.70	54.00	8.30	H	11.6

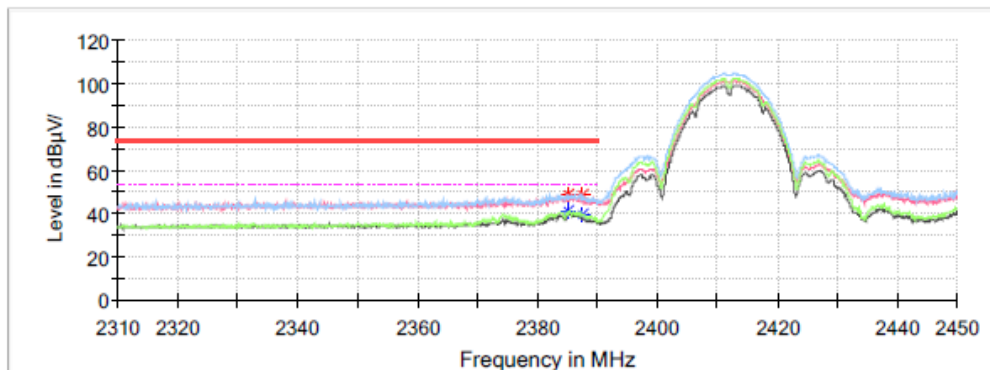
Band Edge:
802.11b Mode:

Low Channel

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11b mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum



Critical Freqs

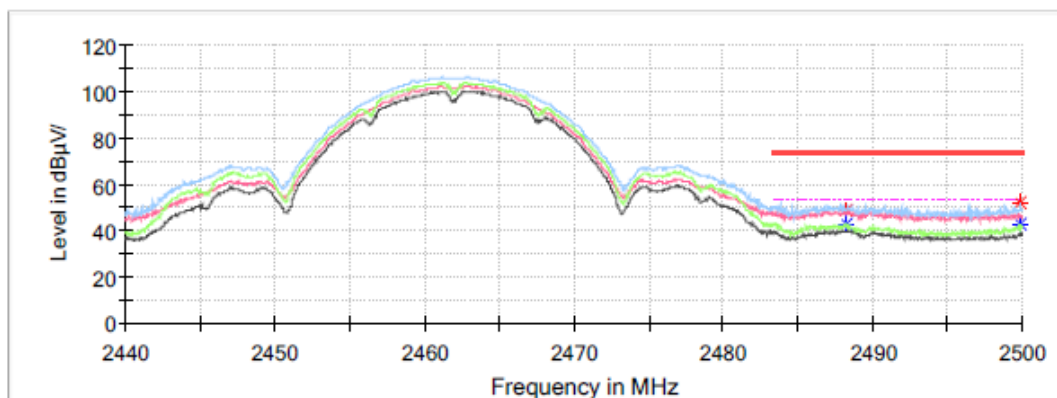
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2385.152000	---	40.79	54.00	13.21	H	0.2
2385.152000	48.94	---	74.00	25.06	H	0.2
2387.560000	---	39.18	54.00	14.82	H	0.2
2387.560000	49.08	---	74.00	24.92	H	0.2

High Channel

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11b mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum



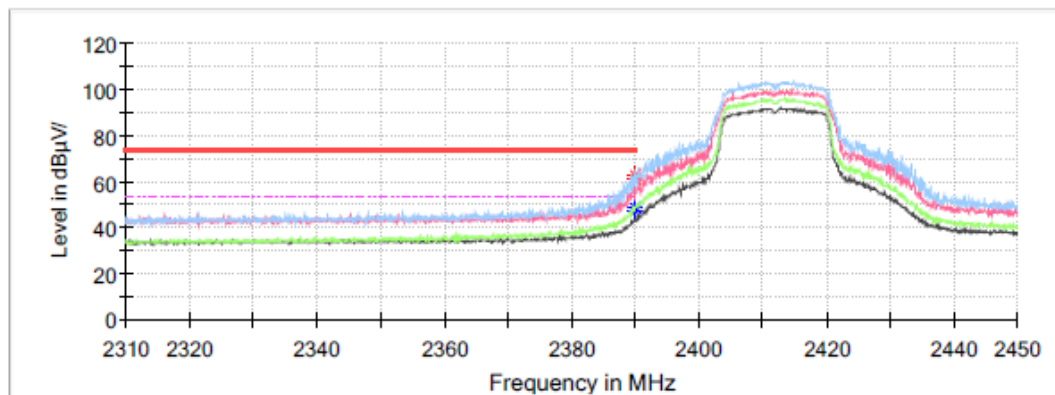
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2488.288000	---	42.87	54.00	11.13	H	0.4
2488.288000	48.89	---	74.00	25.11	H	0.4
2499.904000	---	42.47	54.00	11.53	H	0.4
2499.904000	51.85	---	74.00	22.15	H	0.4

802.11g Mode :**Low Channel****Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11g mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum

**Critical Freqs**

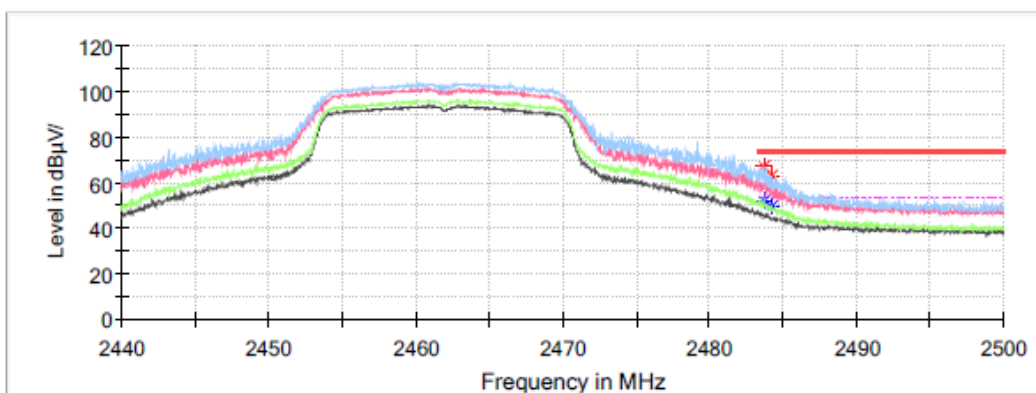
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.856000	---	48.71	54.00	5.29	H	0.2
2389.856000	61.42	---	74.00	12.58	H	0.2
2389.912000	---	47.29	54.00	6.71	H	0.2
2389.912000	62.82	---	74.00	11.18	H	0.2

High Channel

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11g mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.656000	---	52.03	54.00	1.97	H	0.4
2483.656000	67.07	---	74.00	6.93	H	0.4
2484.160000	---	49.12	54.00	4.88	H	0.4
2484.160000	63.33	---	74.00	10.67	H	0.4

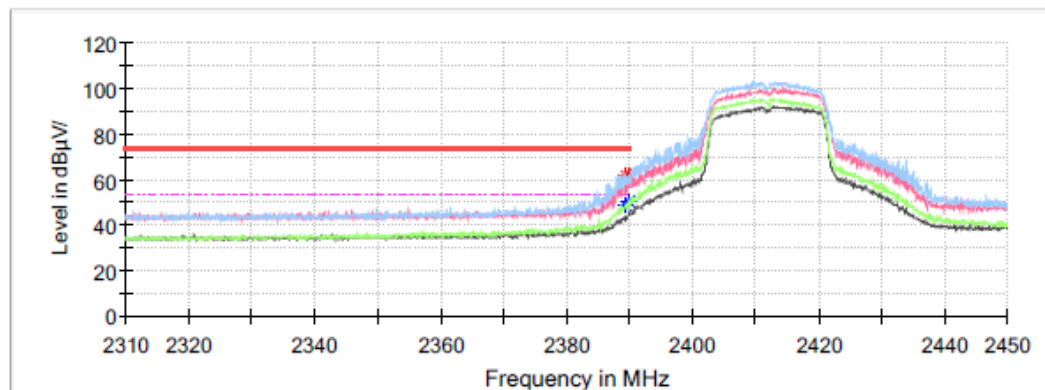
802.11n-HT20 Mode:

Low Channel

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11n20 mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum



Critical Freqs

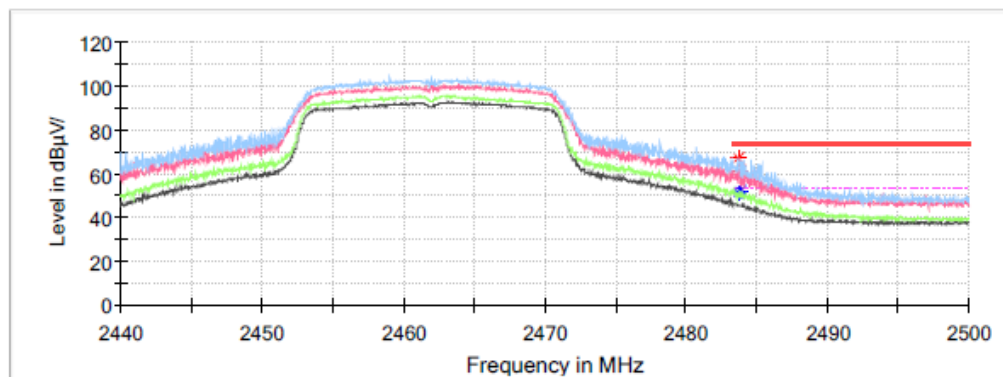
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.352000	62.34	---	74.00	11.66	H	0.2
2389.352000	---	48.59	54.00	5.41	H	0.2
2389.912000	61.71	---	74.00	12.29	H	0.2
2389.912000	---	50.27	54.00	3.73	H	0.2

High Channel

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11n20 mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum



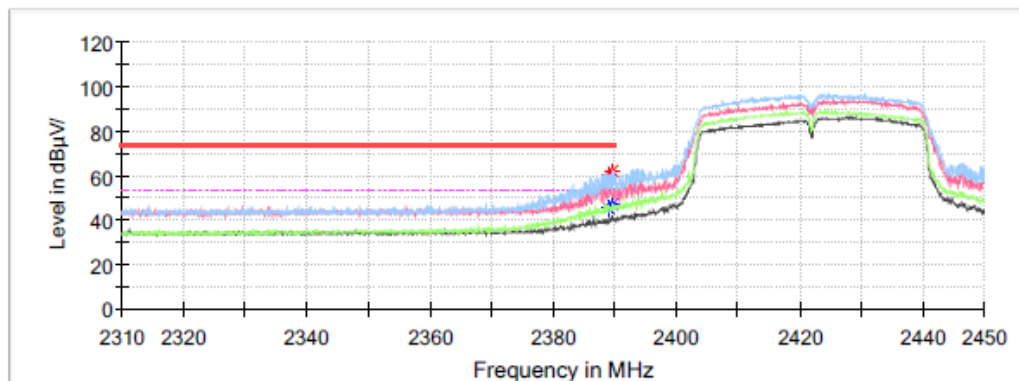
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.656000	66.82	---	74.00	7.18	H	0.4
2483.656000	---	51.44	54.00	2.56	H	0.4
2483.848000	61.59	---	74.00	12.41	H	0.4
2483.848000	---	51.86	54.00	2.14	H	0.4

802.11n-HT40 Mode:**Low Channel****Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: 2.4G WIFI 802.11n40 mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum

**Critical Freqs**

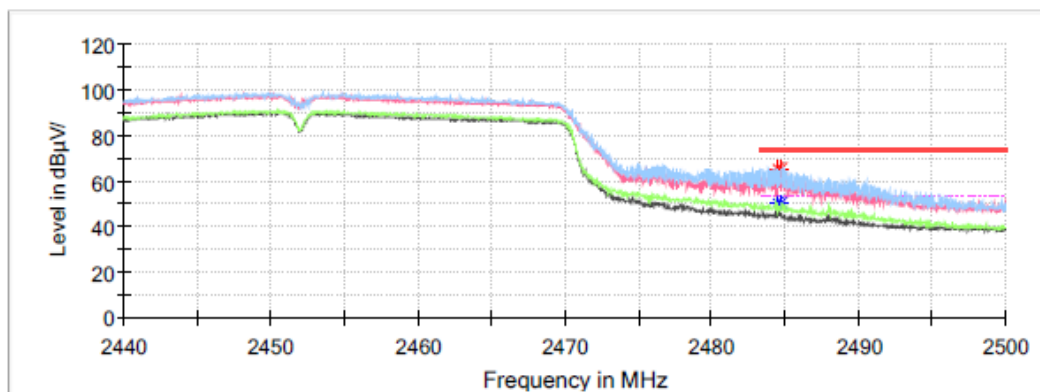
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.128000	---	45.36	54.00	8.64	H	0.2
2389.128000	60.77	---	74.00	13.23	H	0.2
2389.800000	---	47.19	54.00	6.81	H	0.2
2389.800000	61.94	---	74.00	12.06	H	0.2

High Channel

Common Information

Project No.:	RKSA250728004
EUT Model:	K1112
Test Mode:	2.4G WIFI 802.11n40 mode High Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.3℃
Humidity:	49%
Atmospheric Pressure:	101.0kPa
Test Engineer:	Destine Hu
Test Date:	2025/8/23

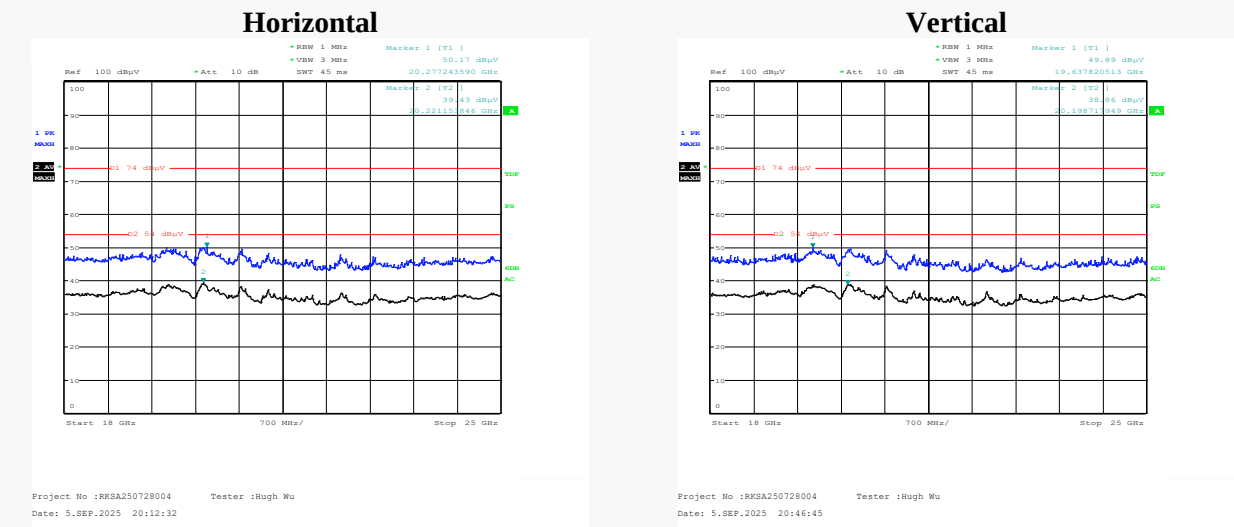
Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.520000	---	49.99	54.00	4.01	H	0.4
2484.520000	65.22	---	74.00	8.78	H	0.4
2484.712000	65.33	---	74.00	8.67	H	0.4
2484.712000	---	50.30	54.00	3.70	H	0.4

18GHz-25GHz: Transmitting in maximum output power mode and 802.11g mode low channel

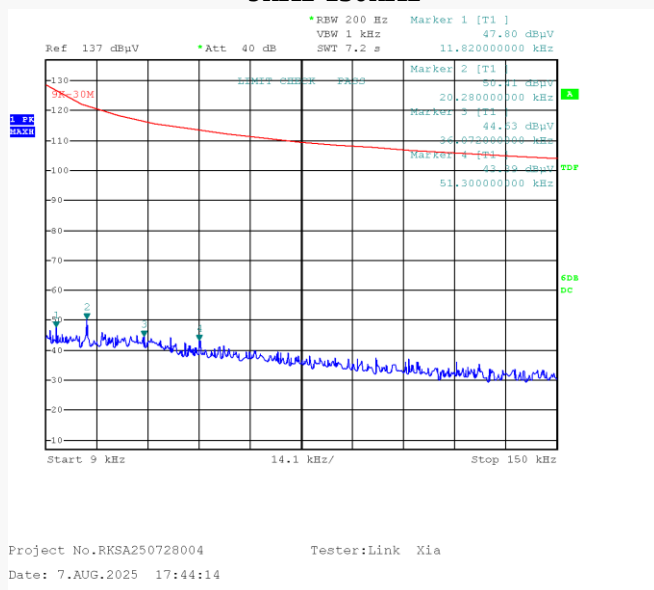
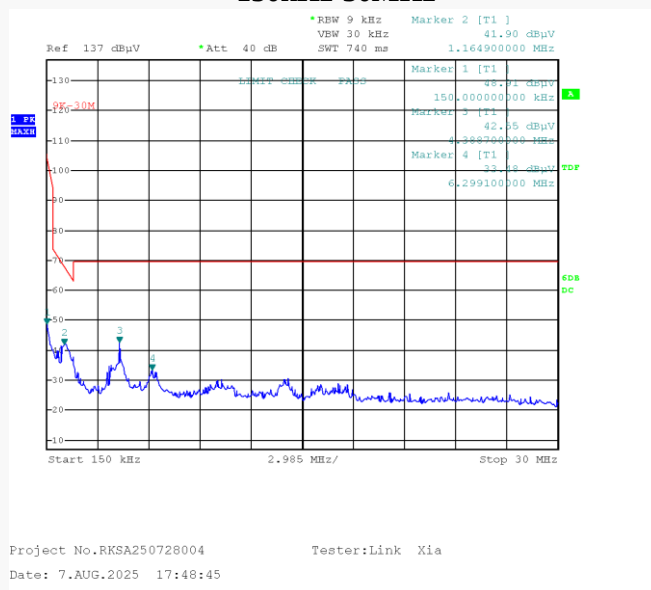


Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.22	---	39.43	54	14.57	H	12.48
20.28	50.17	---	74	23.83	H	12.53
20.20	---	38.86	54	15.14	V	12.46
19.64	49.89	---	74	24.11	V	11.24

Note: The test distance is 3m. The limit is 74dB μ V/m (Peak) and 54dB μ V/m (Average).

For BLE Mode:

9 kHz-30MHz: Transmitting in maximum output power mode BLE (1 Mbps) middle channel
Parallel(worst case)

9kHz-150kHz**150kHz-30MHz****9 kHz-150 kHz**

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.011820	47.80	PK	-0.52	126.15	78.35
0.020280	50.41	PK	-0.56	121.46	71.05
0.036072	44.63	PK	-1.58	116.46	71.83
0.051300	43.39	PK	-3.96	113.40	70.01

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	48.91	PK	-11.34	104.08	55.17
1.164900	41.90	PK	-28.15	63.26	21.36
4.388700	42.55	PK	-31.97	69.54	26.99
6.299100	33.48	PK	-32.26	69.54	36.06

9kHz-150kHz



Tester:Link Xia

Project No.RKSA250728004
Date: 7.AUG.2025 17:56:23

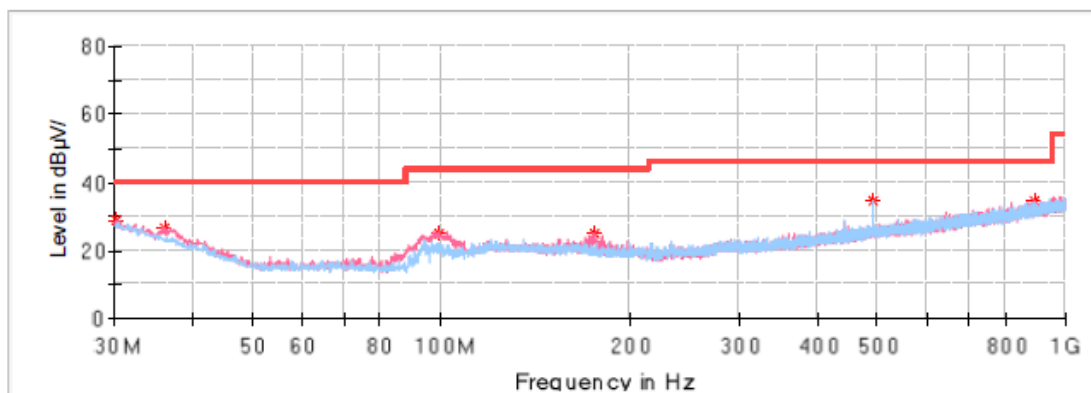
Tester:Link Xia

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.011256	47.97	PK	-0.52	126.58	78.61
0.020280	49.32	PK	-0.56	121.46	72.14
0.043122	43.68	PK	-2.71	114.91	71.23
0.057504	41.83	PK	-4.69	112.41	70.58

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	48.16	PK	-11.34	104.08	55.92
1.224600	41.94	PK	-28.35	65.84	23.90
4.388700	42.42	PK	-31.97	69.54	27.12
6.418500	33.07	PK	-32.27	69.54	36.47

**BLE (1 Mbps) (Transmitting in maximum output power BLE (1 Mbps) middle channel)
30MHz-1GHz****Middle Channel: 2440MHz****Common Information**

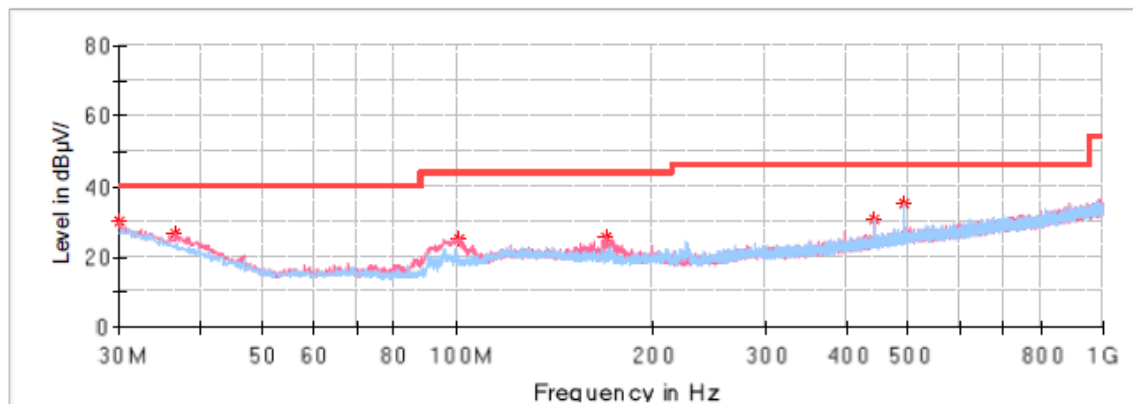
Project No: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 21.0°C
Humidity: 50%
Barometric Pressure: 102.3kPa
Test Engineer: Scarf Yang
Test Date: 2025/10/31

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
30.121250	28.91	40.00	11.09	V	-4.8
36.062500	26.69	40.00	13.31	V	-8.7
99.355000	25.22	43.50	18.28	V	-14.5
175.742500	24.71	43.50	18.79	V	-12.8
494.023750	34.88	46.00	11.12	H	-5.5
895.603750	34.71	46.00	11.29	V	0.9

**BLE (2 Mbps) (Transmitting in maximum output power BLE (2 Mbps) middle channel)
30MHz-1GHz****Middle Channel: 2440MHz****Common Information**

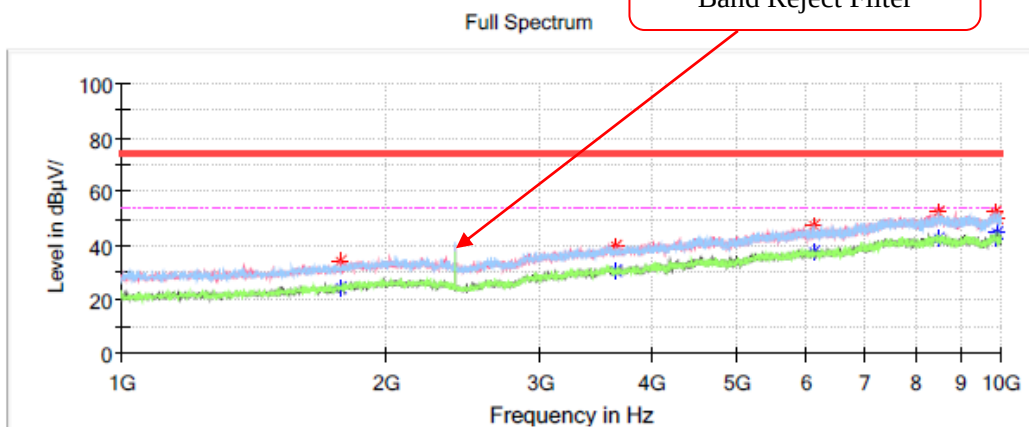
Project No: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-2M mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 21.0°C
Humidity: 50%
Barometric Pressure: 102.3 kPa
Test Engineer: Scarf Yang
Test Date: 2025/10/31

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
30.000000	30.30	40.00	9.70	V	-4.7
36.668750	26.52	40.00	13.48	V	-9.1
100.567500	24.94	43.50	18.56	V	-14.2
170.407500	25.58	43.50	17.92	V	-12.6
442.007500	30.86	46.00	15.14	V	-6.9
494.023750	35.23	46.00	10.77	H	-5.5

**BLE (1 Mbps)
1GHz-18GHz:****Low Channel: 2402MHz****Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

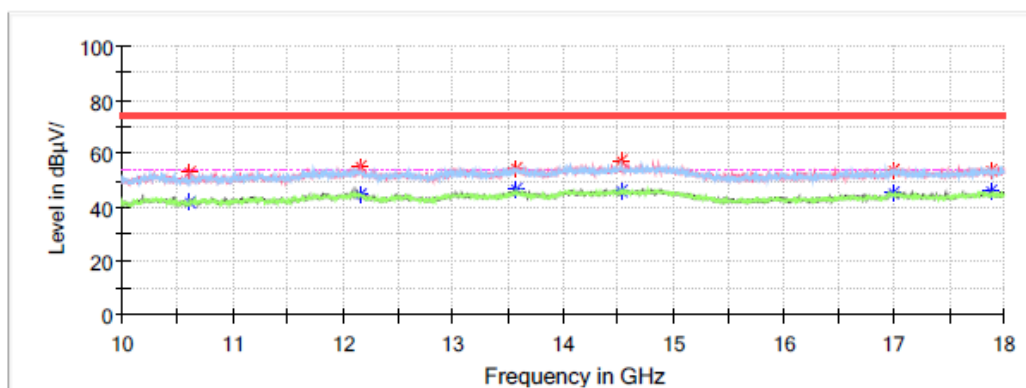
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1776.700000	34.04	---	74.00	39.96	V	-11.5
1776.700000	---	24.13	54.00	29.87	V	-11.5
3641.500000	---	30.99	54.00	23.01	V	-5.9
3641.500000	40.08	---	74.00	33.92	V	-5.9
6117.400000	---	37.72	54.00	16.28	H	-0.7
6117.400000	47.54	---	74.00	26.46	H	-0.7
8498.800000	---	42.93	54.00	11.07	V	4.7
8498.800000	52.37	---	74.00	21.63	V	4.7
9838.000000	---	42.78	54.00	11.22	H	5.9
9838.000000	52.66	---	74.00	21.34	H	5.9
9925.300000	---	44.62	54.00	9.38	V	6.1
9925.300000	50.17	---	74.00	23.83	V	6.1

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum

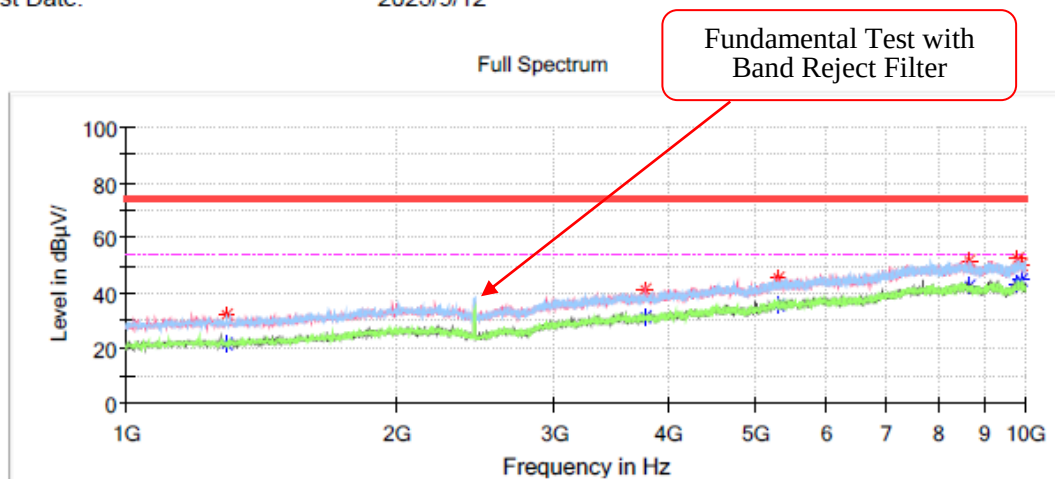


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10612.800000	---	42.25	54.00	11.75	V	6.7
10612.800000	52.84	---	74.00	21.16	V	6.7
12169.600000	55.18	---	74.00	18.82	V	9.0
12169.600000	---	45.03	54.00	8.97	V	9.0
13579.200000	54.41	---	74.00	19.59	H	10.2
13579.200000	---	47.02	54.00	6.98	H	10.2
14529.600000	57.28	---	74.00	16.72	H	11.9
14529.600000	---	46.33	54.00	7.67	H	11.9
16993.600000	53.50	---	74.00	20.50	V	10.9
16993.600000	---	45.60	54.00	8.40	V	10.9
17884.800000	---	45.94	54.00	8.06	H	11.5
17884.800000	54.14	---	74.00	19.86	H	11.5

Middle Channel: 2440MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

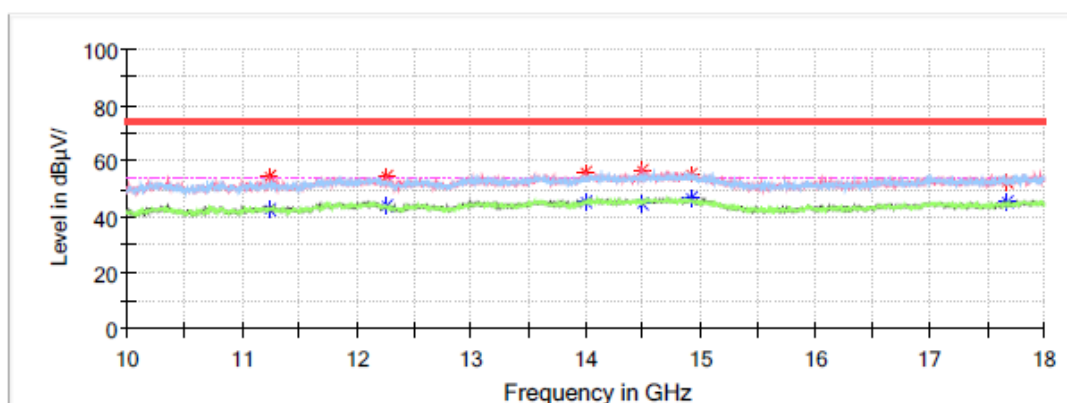
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1294.300000	---	21.94	54.00	32.06	H	-14.2
1294.300000	32.30	---	74.00	41.70	H	-14.2
3786.400000	---	31.29	54.00	22.71	V	-5.5
3786.400000	40.95	---	74.00	33.05	V	-5.5
5324.500000	---	35.72	54.00	18.28	H	-2.1
5324.500000	45.80	---	74.00	28.20	H	-2.1
8646.400000	---	42.52	54.00	11.48	H	4.7
8646.400000	51.69	---	74.00	22.31	H	4.7
9816.400000	---	43.36	54.00	10.64	V	5.8
9816.400000	52.17	---	74.00	21.83	V	5.8
9921.700000	---	44.86	54.00	9.14	H	6.1
9921.700000	50.41	---	74.00	23.59	H	6.1

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: Transmitting in BLE-1M Middle Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum

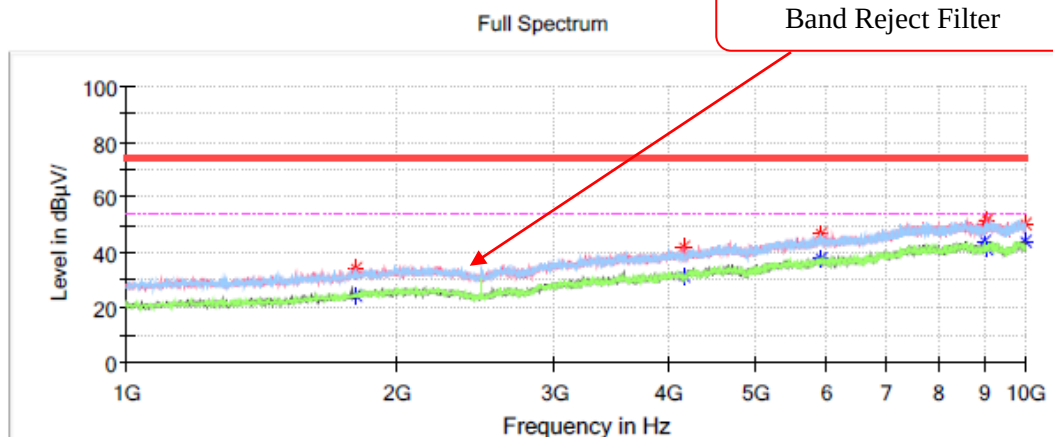


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11240.000000	54.41	---	74.00	19.59	V	7.3
11240.000000	---	42.85	54.00	11.15	V	7.3
12265.600000	---	44.19	54.00	9.81	V	8.9
12265.600000	54.27	---	74.00	19.73	V	8.9
14000.000000	56.23	---	74.00	17.77	V	11.1
14000.000000	---	45.35	54.00	8.65	V	11.1
14500.800000	---	44.81	54.00	9.19	H	12.0
14500.800000	56.62	---	74.00	17.38	H	12.0
14913.600000	---	47.16	54.00	6.84	V	10.6
14913.600000	55.24	---	74.00	18.76	V	10.6
17673.600000	52.79	---	74.00	21.21	H	10.9
17673.600000	---	45.75	54.00	8.25	H	10.9

High Channel: 2480MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

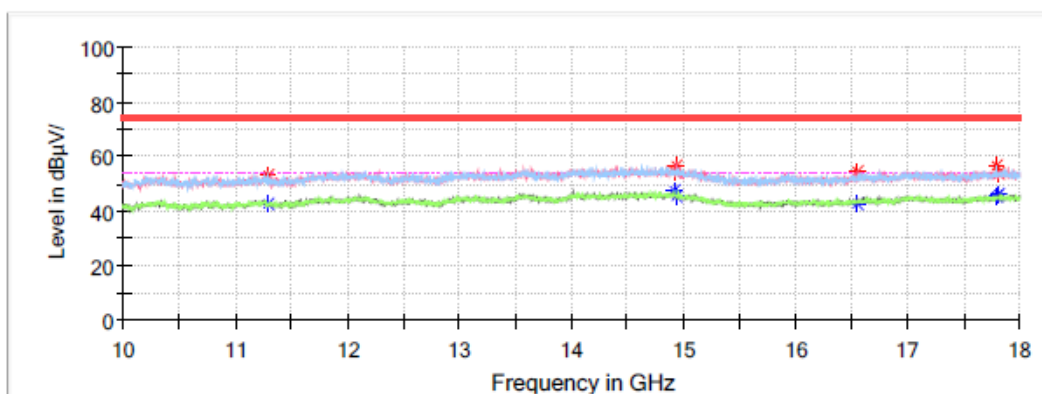
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1802.800000	---	24.32	54.00	29.68	H	-11.4
1802.800000	34.43	---	74.00	39.57	H	-11.4
4176.100000	---	31.46	54.00	22.54	V	-4.7
4176.100000	41.83	---	74.00	32.17	V	-4.7
5914.900000	---	37.48	54.00	16.52	V	-0.8
5914.900000	46.66	---	74.00	27.34	V	-0.8
9009.100000	---	44.22	54.00	9.78	H	4.7
9009.100000	50.23	---	74.00	23.77	H	4.7
9037.000000	---	41.57	54.00	12.43	V	4.7
9037.000000	51.97	---	74.00	22.03	V	4.7
9995.500000	50.23	---	74.00	23.77	V	6.4
9995.500000	---	44.10	54.00	9.90	V	6.4

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum



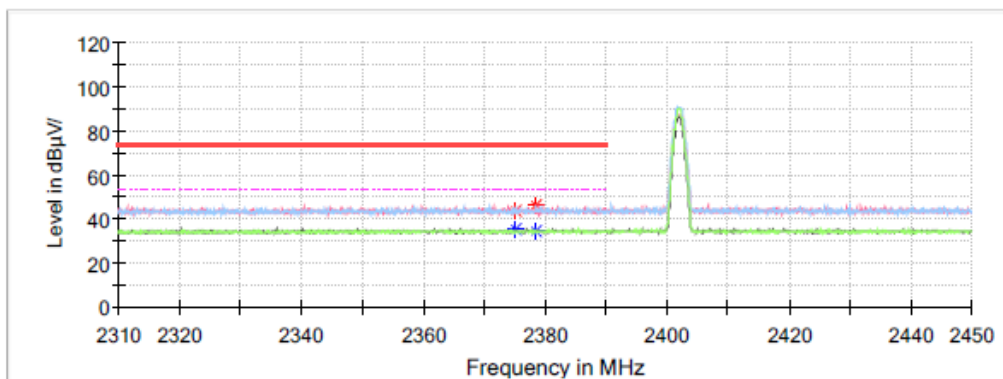
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11286.400000	---	42.74	54.00	11.26	H	7.5
11286.400000	53.31	---	74.00	20.69	H	7.5
14924.800000	---	47.46	54.00	6.54	H	10.5
14924.800000	54.46	---	74.00	19.54	H	10.5
14944.000000	---	45.71	54.00	8.29	V	10.5
14944.000000	56.68	---	74.00	17.32	V	10.5
16555.200000	---	43.00	54.00	11.00	V	9.2
16555.200000	54.83	---	74.00	19.17	V	9.2
17795.200000	---	45.44	54.00	8.56	H	11.2
17795.200000	56.35	---	74.00	17.65	H	11.2
17816.000000	53.57	---	74.00	20.43	V	11.3
17816.000000	---	45.98	54.00	8.02	V	11.3

Band Edge:**Low Channel****Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.5°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Destine Hu
Test Date: 2025/8/22

Full Spectrum

**Critical Freqs**

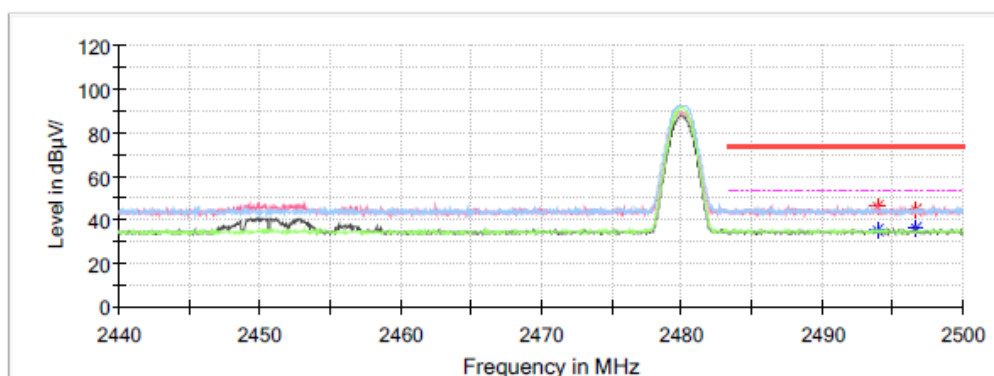
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2375.128000	---	35.21	54.00	18.79	V	0.2
2375.128000	43.46	---	74.00	30.54	V	0.2
2378.432000	---	34.82	54.00	19.18	H	0.2
2378.432000	46.13	---	74.00	27.87	H	0.2

High Channel

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.5°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Destine Hu
Test Date: 2025/8/22

Full Spectrum



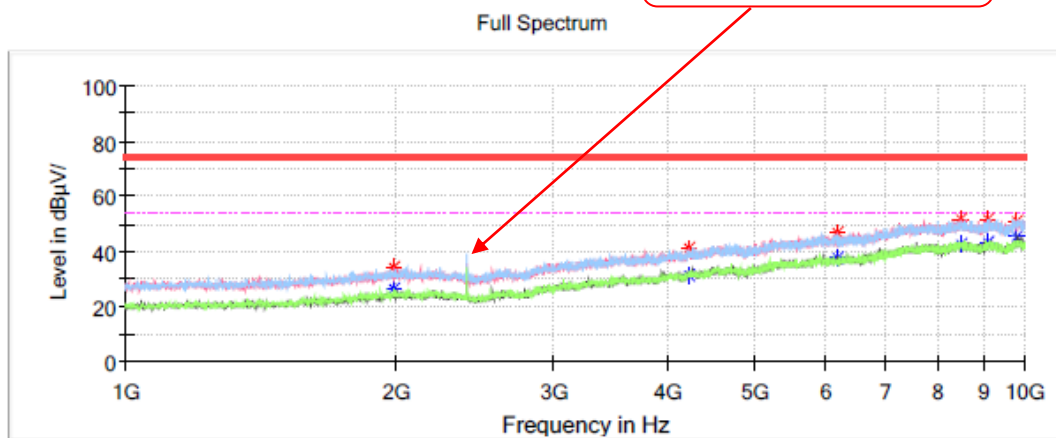
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2493.976000	46.50	---	74.00	27.50	V	0.4
2493.976000	---	35.01	54.00	18.99	V	0.4
2496.592000	44.35	---	74.00	29.65	H	0.4
2496.592000	---	35.73	54.00	18.27	H	0.4

**BLE (2 Mbps)
1GHz-18GHz:****Low Channel: 2402MHz****Common Information**

Project No.:	RKSA250728004
EUT Model:	K1112
Test Mode:	Transmitting in BLE-2M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6℃
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Fundamental Test with
Band Reject Filter

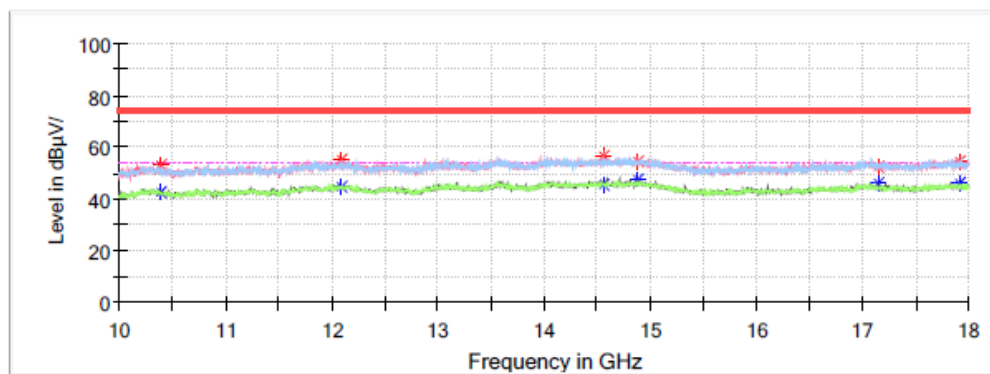
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1983.700000	---	26.33	54.00	27.67	H	-10.1
1983.700000	34.57	---	74.00	39.43	H	-10.1
4237.300000	---	31.55	54.00	22.45	V	-4.6
4237.300000	41.06	---	74.00	32.94	V	-4.6
6194.800000	---	37.90	54.00	16.10	V	-0.7
6194.800000	46.80	---	74.00	27.20	V	-0.7
8506.000000	---	42.42	54.00	11.58	V	4.7
8506.000000	51.98	---	74.00	22.02	V	4.7
9122.500000	---	43.34	54.00	10.66	H	4.7
9122.500000	52.05	---	74.00	21.95	H	4.7
9828.100000	---	45.26	54.00	8.74	V	5.8
9828.100000	50.80	---	74.00	23.20	V	5.8

Common Information

Project No.: RKSA250728004
 EUT Model: K1112
 Test Mode: Transmitting in BLE-2M Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum

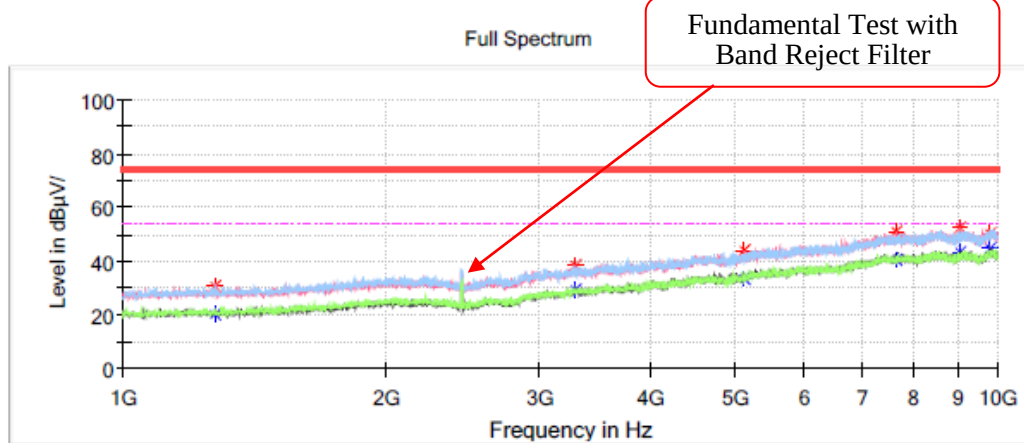


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10388.800000	---	42.41	54.00	11.59	V	6.6
10388.800000	53.07	---	74.00	20.93	V	6.6
12096.000000	---	44.74	54.00	9.26	H	9.0
12096.000000	55.02	---	74.00	18.98	H	9.0
14553.600000	---	45.79	54.00	8.21	V	11.8
14553.600000	56.69	---	74.00	17.31	V	11.8
14891.200000	---	47.56	54.00	6.44	V	10.6
14891.200000	54.38	---	74.00	19.62	V	10.6
17145.600000	52.62	---	74.00	21.38	H	10.8
17145.600000	---	45.89	54.00	8.11	H	10.8
17913.600000	54.23	---	74.00	19.77	V	11.5
17913.600000	---	45.94	54.00	8.06	V	11.5

Middle Channel: 2440MHz**Common Information**

Project No.:	RKSA250728004
EUT Model:	K1112
Test Mode:	Transmitting in BLE-2M Middle Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6°C
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

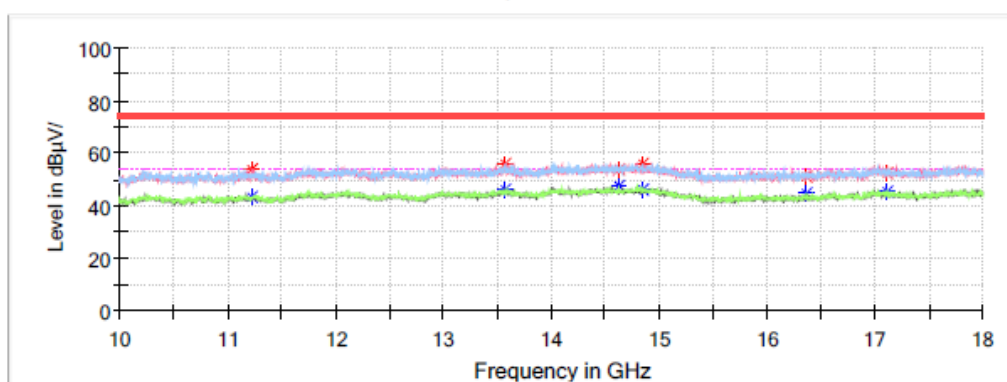
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1276.300000	30.61	---	74.00	43.39	H	-14.2
1276.300000	---	20.48	54.00	33.52	H	-14.2
3283.300000	38.51	---	74.00	35.49	V	-7.1
3283.300000	---	29.07	54.00	24.93	V	-7.1
5129.200000	---	33.52	54.00	20.48	H	-2.6
5129.200000	44.26	---	74.00	29.74	H	-2.6
7641.100000	---	40.38	54.00	13.62	V	3.1
7641.100000	50.75	---	74.00	23.25	V	3.1
9042.400000	---	43.17	54.00	10.83	V	4.7
9042.400000	52.15	---	74.00	21.85	V	4.7
9828.100000	---	45.01	54.00	8.99	V	5.8
9828.100000	50.17	---	74.00	23.83	V	5.8

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-2M Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum

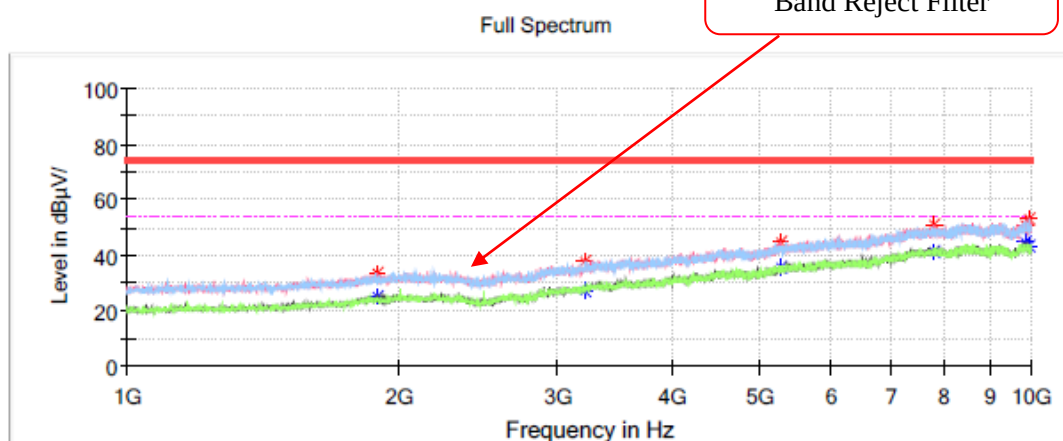


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11222.400000	---	43.05	54.00	10.95	V	7.3
11222.400000	53.84	---	74.00	20.16	V	7.3
13572.800000	---	46.07	54.00	7.93	V	10.1
13572.800000	55.78	---	74.00	18.22	V	10.1
14627.200000	---	47.28	54.00	6.72	H	11.5
14627.200000	53.78	---	74.00	20.22	H	11.5
14852.800000	---	45.82	54.00	8.18	V	10.8
14852.800000	56.09	---	74.00	17.91	V	10.8
16366.400000	51.26	---	74.00	22.74	H	8.9
16366.400000	---	44.65	54.00	9.35	H	8.9
17112.000000	52.45	---	74.00	21.55	H	10.8
17112.000000	---	45.64	54.00	8.36	H	10.8

High Channel: 2480MHz**Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-2M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

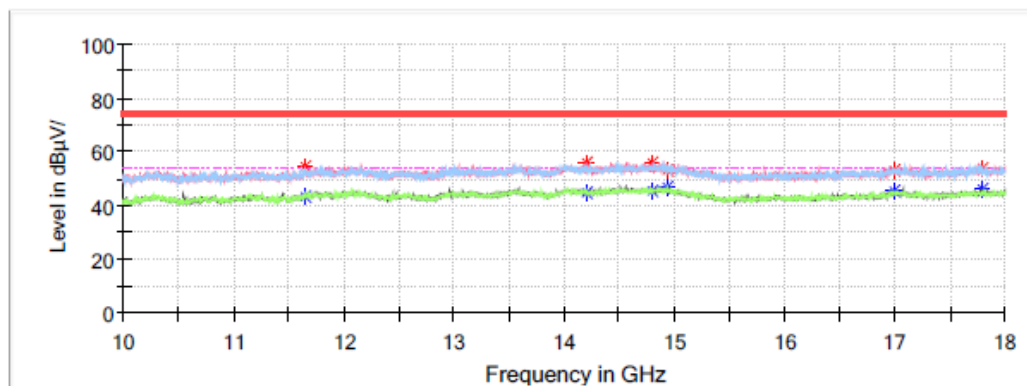
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1891.900000	33.70	---	74.00	40.30	V	-10.7
1891.900000	---	25.29	54.00	28.71	V	-10.7
3204.100000	---	27.13	54.00	26.87	H	-7.3
3204.100000	38.06	---	74.00	35.94	H	-7.3
5282.200000	---	35.53	54.00	18.47	V	-2.2
5282.200000	44.80	---	74.00	29.20	V	-2.2
7810.300000	---	41.32	54.00	12.68	V	3.2
7810.300000	50.77	---	74.00	23.23	V	3.2
9856.900000	---	44.95	54.00	9.05	V	5.9
9856.900000	51.21	---	74.00	22.79	V	5.9
9948.700000	---	43.11	54.00	10.89	H	6.2
9948.700000	53.07	---	74.00	20.93	H	6.2

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-2M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Full Spectrum



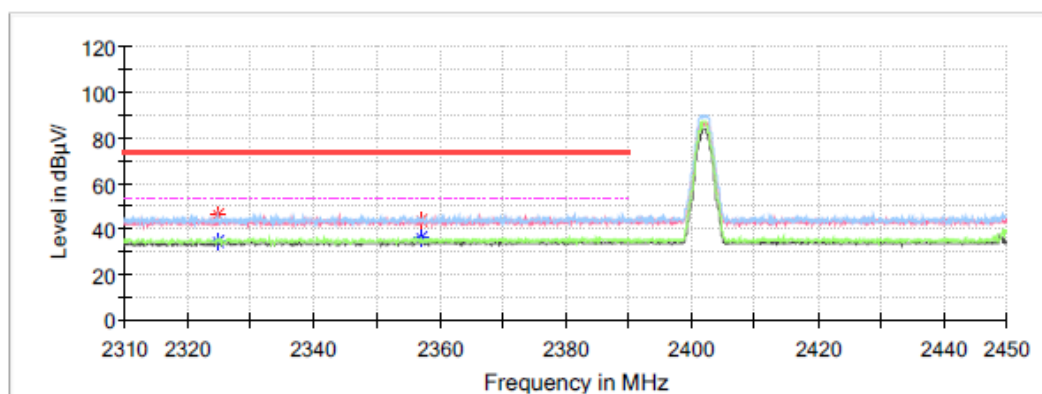
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11644.800000	54.71	---	74.00	19.29	V	8.4
11644.800000	---	43.44	54.00	10.56	V	8.4
14201.600000	---	44.42	54.00	9.58	V	11.4
14201.600000	55.64	---	74.00	18.36	V	11.4
14800.000000	---	45.42	54.00	8.58	V	11.0
14800.000000	55.90	---	74.00	18.10	V	11.0
14928.000000	---	47.16	54.00	6.84	H	10.5
14928.000000	53.44	---	74.00	20.56	H	10.5
16996.800000	---	45.69	54.00	8.31	H	10.9
16996.800000	53.18	---	74.00	20.82	H	10.9
17796.800000	---	46.25	54.00	7.75	V	11.2
17796.800000	54.05	---	74.00	19.95	V	11.2

Band Edge:**Low Channel****Common Information**

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-2M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

Full Spectrum

**Critical Freqs**

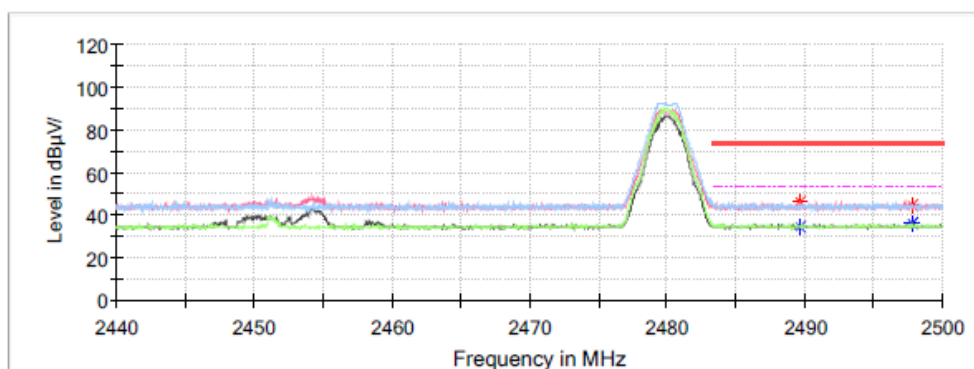
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2324.672000	46.57	---	74.00	27.43	H	0.1
2324.672000	---	34.75	54.00	19.25	H	0.1
2357.040000	43.83	---	74.00	30.17	V	0.2
2357.040000	---	36.08	54.00	17.92	V	0.2

High Channel

Common Information

Project No.: RKSA250728004
EUT Model: K1112
Test Mode: Transmitting in BLE-2M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/8/23

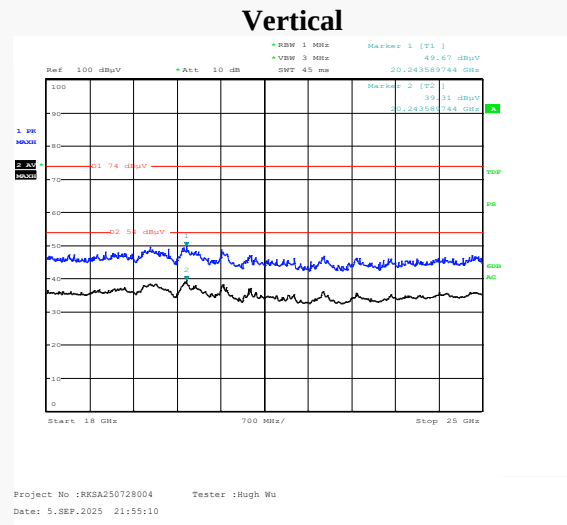
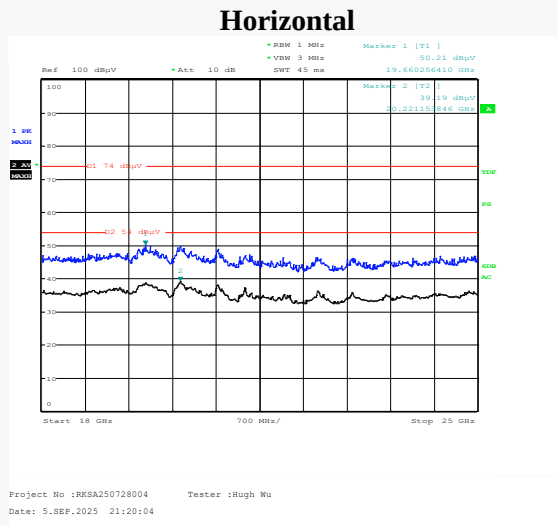
Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2489.656000	46.12	---	74.00	27.88	V	0.4
2489.656000	---	34.48	54.00	19.52	V	0.4
2497.744000	44.13	---	74.00	29.87	H	0.4
2497.744000	---	35.84	54.00	18.16	H	0.4

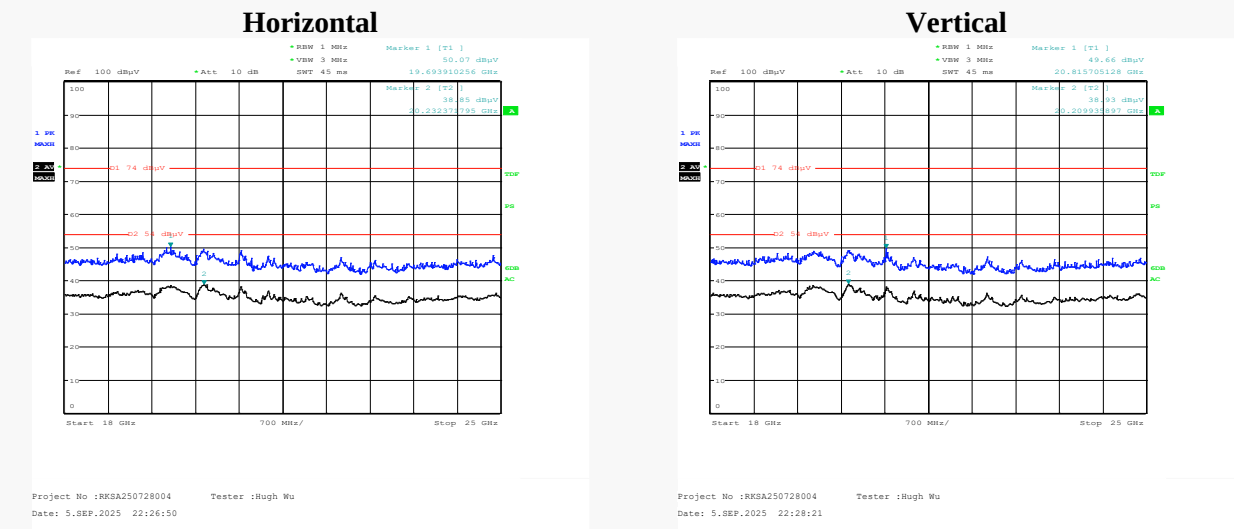
18GHz-25GHz: Transmitting in maximum output power mode and BLE 1M middle channel



Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.22	---	39.19	54	14.81	H	12.48
19.66	50.21	---	74	23.79	H	11.3
20.24	---	39.31	54	14.69	V	12.5
20.24	49.67	---	74	24.33	V	12.5

Note: The test distance is 3m. The limit is 74dB μ V/m(Peak) and 54dB μ V/m(Average).

18GHz-25GHz: Transmitting in maximum output power mode and BLE 2M middle channel



Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.23	---	38.85	54	15.15	H	12.49
19.69	50.07	---	74	23.93	H	11.38
20.21	---	38.93	54	15.07	V	12.47
20.82	49.66	---	74	24.34	V	13.02

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).